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United States Department of Agriculture, DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *January 31, 1905.*

MONTHLY LIST OF PUBLICATIONS.

[JANUARY, 1905.]

NOTE.—To obtain those publications, to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

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NEW PUBLICATIONS.

ADVANCE SHEETS.

Soil Survey of the Parsons Area, Kansas. By J. A. Drake. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 23, fig. 1. Map.

Soil Survey of the McNeill Area, Mississippi. By William G. Smith and William T. Carter, jr. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 18, fig. 1. Map.

Soil Survey of the Fort Valley Area, Georgia. By William G. Smith and William T. Carter, jr. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 18, fig. 1. Map.

Soil Survey of Gadsden County, Florida. By Elmer O. Fippin and Aldert S. Root. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 27, fig. 1. Map.

Soil Survey of Scott County, Kentucky. By R. T. Avon Burke. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 16, fig. 1. Map.

Soil Survey of the Grand Island Area, Nebraska. By W. Edward Hearn and James L. Burgess. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 23, fig. 1. Map.

Soil Survey of Knox County, Illinois. By George N. Coffey, C. W. Ely, and C. J. Mann. Assisted by J. G. Mosier, Clifford Willis, and A. F. Kidder, of the Illinois Experiment Station. [Advance Sheets—Fields Operations of the Bureau of Soils, 1903.] Pp. 20, fig. 1. Map.

Soil Survey of the Mobile Area, Alabama. By R. T. Avon Burke and Party. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 15, fig. 1. Map.

Soil Survey of Shelby County, Missouri. By R. T. Avon Burke and La Mott Ruhlen. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 19, fig. 1. Map.

Soil Survey of the Fort Payne Area, Alabama. By Grove B. Jones and M. E. Carr. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 21, fig. 1. Map.

Soil Survey of the Craven Area, North Carolina. By William G. Smith and George N. Coffey. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 30, fig. 1. Map.

Soil Survey of the Indio Area, California. By J. Garnet Holmes and Party. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 18, fig. 1. Maps 2.

Soil Survey of the Solomonsville Area, Arizona. By Macy H. Lapham and N. P. Neill. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 30, pl. 1, fig. 1. Map.

Soil Survey of the Viroqua Area, Wisconsin. By William G. Smith. [Advance Sheets—Field Operations of the Bureau of Soils.] Pp. 20, fig. 1. Map.

Soil Survey of the Stanton Area, Nebraska. By W. Edward Hearn. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 20, fig. 1. Map.

Soil Survey of Acadia Parish, Louisiana. By Thomas D. Rice and Lewis Griswold. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 29, fig. 1. Map.

Soil Survey of the Long Island Area, New York. By Jay A. Bonsteel and Party. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 42, fig. 1. Maps 2.

BULLETINS.

The Gid Parasite (*cænurus cerebralis*): Its Presence in American Sheep. By B. H. Ransom, B. Sc., A. M., Scientific Assistant in Charge of the Zoological Laboratory, Bureau of Animal Industry. Pp. 23, figs. 12. (Bulletin No. 66, Bureau of Animal Industry.) Price 5 cents.

Foods and Food Control. II.—Legislation During the Year Ended July 1, 1904. By W. D. Bigelow, Chief of Division of Foods. Pp. 23. (Bulletin No. 83, Part II, Bureau of Chemistry.) Price 5 cents.

Organization Lists of the Agricultural Colleges and Experiment Stations in the United States. Pp. 92, I–XVIII. (Bulletin No. 151, Office of Experiment Stations.) Price 10 cents.

Report on the Condition of Treated Timbers Laid in Texas, February, 1902. By Hermann Von Schrenck, in Charge of Forest Products, Bureau of Forestry. Pp. 45, pls. 3. (Bulletin No. 51, Bureau of Forestry.) Price 5 cents.

Federal and State Forest Laws. Compiled by George W. Woodruff, A. B., LL. B., Expert, Bureau of Forestry. Pp. 259. (Bulletin No. 57, Bureau of Forestry.) Price 15 cents.

Nomenclature of the Apple; A Catalogue of the Known Varieties Referred to in American Publications from 1804 to 1904. Compiled by W. H. Ragan, Expert in Pomological Nomenclature. Pomological Investigations. Pp. 383. (Bulletin No. 56, Bureau of Plant Industry.) Price 20 cents.

Soil Inoculation for Legumes: With Reports Upon the Successful Use of Artificial Cultures by Practical Farmers. By George T. Moore, Physiologist in Charge of Laboratory of Plant Physiology. Vegetable Pathological and Physiological Investigations. Pp. 72, pls. 10. (Bulletin No. 71, Bureau of Plant Industry.) Price 15 cents.

The Salt Water Limits of Wild Rice. By Carl S. Scofield, Botanist in Charge of Grain Grade Investigations. Botanical Investigations and Experiments. Pp. 8. (Bulletin No. 72, Part II, Bureau of Plant Industry.) Price 5 cents.

Contributions to Our Knowledge of the Aeration of Soils. By Edgar Buckingham. Pp. 52. (Bulletin No. 25, Bureau of Soils.) Price 5 cents.

REPRINTS.

- Bulletin No. 112, Office of Experiment Stations, revised. Agricultural Experiment Stations in Foreign Countries. Price 15 cents.
- Bulletin No. 142, Office of Experiment Stations. Proceedings of the Seventeenth Annual Convention of the Association of American Agricultural Colleges and Experiment Stations, Held at Washington, D. C., November 17-19, 1903. Price 10 cents.
- Bulletin No. 63, Office of Experiment Stations. Description of a New Respiration Calorimeter and Experiments on the Conservation of Energy in the Human Body. Price 10 cents.
- Bulletin No. 144, Part 1, Office of Experiment Stations. Irrigation in Northern Italy. Price 20 cents.

CIRCULARS.

NEW.

- Adulteration of Alfalfa Seed. Pp. 2. (Circular No. 12, Office of the Secretary.)
- Pathological Report on a Case of Rabies in a Woman. By John R. Mohler, A. M., V. M. D., Chief of Pathological Division, Bureau of Animal Industry. Pp. 7, pls. 2. (Circular No. 54, Bureau of Animal Industry.)
- Warning Against Trespass on the Breton Island Reservation. Pp. 1. (Biological Survey Circular No. 45.)
- Progress Report of Cooperative Irrigation Investigations in California. By S. Fortier, Irrigation Engineer, in charge of Pacific District. Pp. 23. (Circular No. 59, Office of Experiment Stations.)
- The Teaching of Agriculture in the Rural Common Schools. Pp. 20. (Circular No. 60, Office of Experiment Stations.)
- Monthly List of Publications, December, 1904. Pp. 4. (No. 507, Division of Publications.)
- Opportunities for the Production of Cigar-Leaf Tobacco in East Texas and Alabama. By Milton Whitney, Chief of Bureau. (Circular No. 14, Bureau of Soils.)
- Crop Reporter. Vol. 6, No. 9. Published by the U. S. Department of Agriculture Under the Supervision of the Statistician. Pp. 73-80.
- A three-column quarto publication devoted to agricultural statistics.

REPRINTS.

- Circular No. 1, Bureau of Animal Industry, revised. Directions for the Pasteurization of Milk.
- Circular No. 7, Bureau of Animal Industry. Actinomycosis, or Lumpy Jaw.
- Circular No. 55, Bureau of Animal Industry. Reindeer and Caribou.
- Circular No. 58, Bureau of Animal Industry. Pulmonary Mycosis of Birds—With Report of a Case in a Flamingo.
- Circular No. 60, Bureau of Animal Industry. Certain Variations in the Morphology of Tubercle Bacilli of Bovine Origin.
- Circular No. 61, Bureau of Animal Industry. The Desirability of Phosphates as an Addition to Culture Media for Tubercle Bacilli.
- Practices in Crop Rotation. (From Yearbook of Department of Agriculture for 1902.) Reprint.
- Popular Education for the Farmer in the United States. (From Yearbook of Department of Agriculture for 1897.) Reprint.

FROM ANNUAL REPORTS DEPARTMENT OF AGRICULTURE, 1904.

- Report of the Chief of the Bureau of Animal Industry. Pp. iii, 43-67.
- Report of the Chief of the Bureau of Plant Industry. Pp. iv, 69-168.
- Report of the Chief of the Weather Bureau. Pp. iii, 1-42.
- Report of the Forester. Pp. ii, 169-205.

- Report of the Chemist. Pp. iii, 207-240.
 Report of the Entomologist. Pp. iii, 271-289.
 Report of the Statistician. Pp. iii, 405-412.
 Report of the Office of Public Road Inquiries. Pp. iii, 419-443.
 Report of the Librarian. Pp. ii, 413-417.
 Report of the Chief of the Division of Accounts and Disbursements. Pp. iii, 307-314.
 Report of the Appointment Clerk. Pp. iii, 315-337, I-XVII.
 Report of the Editor. iii, 339-404.
 Report of the Chief of the Bureau of Soils. Pp. ii, 241-269.

FARMERS' BULLETINS.

REPRINTS.

- No. 121.—Beans, Peas, and Other Legumes as Food. Revised edition.
 No. 198.—Strawberries.
 No. 200.—Turkeys: Standard Varieties and Management.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau.]

Charts of the Weather Bureau—

Climate and Crop Bulletin (series of 1904), reporting temperature and rainfall with reference to their effect on crops. (No. 32 for the month of December, 1904.)

Snow and Ice Bulletin for Tuesdays, January 3, 10, 17, 24, and 31, 1905. (These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected voluntary observers.)

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

Approved:

JAMES WILSON,
Secretary of Agriculture.

GEO. WM. HILL,
Editor and Chief.

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture, DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *February 28, 1905.*

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[FEBRUARY, 1905.]

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NEW PUBLICATIONS.

ADVANCE SHEETS.

Soil Survey of the Imperial Area, California. (Extending the Survey of 1901.) By J. Garnett Holmes and Party. Pp. 34, fig. 1. Map. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.]

Soil Survey of the Huntsville Area, Alabama. By Frank Bennett, Jr., and A. W. Griffin. Pp. 24, fig. 1. Map. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.]

Soil Survey of the Jamestown Area, North Dakota. By Thomas A. Caine and A. E. Kocher. Pp. 26, fig. 1. Map. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.]

BULLETINS.

The Luquillo Forest Reserve, Porto Rico. By John C. Gifford, D. Céc., Agent Bureau of Forestry. Pp. 52, pls. 8. Map. (Bulletin No. 54, Bureau of Forestry.) Price 10 cents.

Miscellaneous Papers. I. The Wilt Disease of Tobacco and Its Control. By R. E. B. McKenney, Physiologist. II. The Work of the Community Demonstration Farm at Terrell, Tex. By Seaman A. Knapp, Special Agent. III. Fruit Trees Frozen in 1904. By M. B. Waite, Pathologist. IV. The Cultivation of the Australian Wattle. By David G. Fairchild, Agricultural Explorer. V. Legal and Customary Weights per Bushel of Seeds. By Edgar Brown, Botanist in Charge of Seed Laboratory. VI. Golden Seal. By Alice Henkel, Assistant, and G. Fred Klugh, Scientific Assistant. Pp. 46, pls. 5, figs. 5 (Bulletin No. 51, Bureau of Plant Industry). Price 5 cents.

Seeds and Plants Imported During the Period from September, 1900, to December, 1903. Inventory No. 10; Nos. 5501–9896. Seed and Plant Introduction and Distribution. Pp. 333. (Bulletin No. 66, Bureau of Plant Industry.) Price 15 cents.

Experiment Station Record. Vol. XVI, No. 5. E. W. Allen, Ph. D., Editor. Pp. viii, figs. 2, 421-524.

Experiment Station Record. Vol. XVI, No. 6. E. W. Allen, Ph. D., Editor. Pp. x, 525-628, pls. 4. (No single numbers of Vol. XVI sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has decided to fix the price per volume (12 numbers) beginning with Volume X, at \$1, payable in advance.

REPRINTS.

Bulletin No. 54, Bureau of Animal Industry. Laws (Federal, State, and Territorial) Relating to Contagious and Infectious Diseases of Animals. 1902 and 1903. Price 5 cents.

Bulletin No. 28, Bureau of Animal Industry. Legislation with Reference to Bovine Tuberculosis. Price 10 cents.

Bulletin No. 28, Revised edition, Office of Experiment Stations. The Chemical Composition of American Food Materials. Price 5 cents.

Bulletin No. 7, Division of Publications. Index to the Yearbooks of the U. S. Department of Agriculture, 1894-1900. Price 10 cents.

CIRCULARS.

NEW.

Standards of Purity for Food Products. (Superseding Circular No. 10.) Supplemental Proclamation. Pp. 14. (Circular No. 13, Office of the Secretary.)

Ophthalmia in Cattle. By M. R. Trumbower, D. V. S. (Revised in 1904 by Leonard Pearson, B. S., V. M. D.) Pp. 2. (Circular No. 65, Bureau of Animal Industry.)

Osteomalacia, or Creeps in Cattle. By V. T. Atkinson, V. S. [Revised in 1904 by John R. Mohler, V. M. D.] Pp. 2. (Circular No. 66, Bureau of Animal Industry.)

Abortion, or Slinking the Calf. By James Law, F. R. C. V. S., Professor of Veterinary Science, etc., in Cornell University. Pp. 11. (Circular No. 67, Bureau of Animal Industry.)

Diseases of the Stomach and Bowels of Cattle. By A. J. Murray, M. R. C. V. S. [Revised in 1904 by Leonard Pearson, B. S., V. M. D.] Pp. 10. (Circular No. 68, Bureau of Animal Industry.)

Texas Fever, or Southern Cattle Fever. By Drs. D. E. Salmon and Theobald Smith. [Revised in 1904 by Drs. Salmon and Mohler.] Pp. 13. (Circular No. 69, Bureau of Animal Industry.)

Tuberculosis of Cattle. By Drs. D. E. Salmon and Theobald Smith. [Revised in 1904 by Drs. Salmon and Mohler.] Pp. 28. (Circular No. 70, Bureau of Animal Industry.)

Anthrax in Cattle, Horses, and Men. By Drs. D. E. Salmon and Theobald Smith. [Revised in 1904 by Drs. Salmon and Mohler.] Pp. 10. (Circular No. 71, Bureau of Animal Industry.)

Directions for Collecting Birds' Stomachs. By C. Hart Merriam, Chief, Biological Survey. Pp. 1. (Circular No. 46, Biological Survey.)

Cooperative Work on the Titer Test, Association of Official Agricultural Chemists, 1904. By L. M. Tolman, Associate Referee on Fats and Oils. Pp. 16. (Circular No. 22, Bureau of Chemistry.)

Statistics of Land-Grant Colleges and Agricultural Experiment Stations, 1904. Compiled by Miss M. T. Spethmann. Pp. 9. (Circular No. 61, Office of Experiment Stations.)

Monthly List of Publications, January, 1905. Pp. 4. (No. 509, Division of Publications.)

Crop Reporter. Vol. 6, No. 10. Published by the U. S. Department of Agriculture Under the Supervision of the Statistician. Pp. 81-88.

A three-column quarto publication devoted to agricultural statistics.

REPRINTS.

Circular No. 12, Office of the Secretary. Adulteration of Alfalfa Seed.

Circular No. 35, Bureau of Animal Industry. Treatment for Roundworms in Sheep, Goats, and Cattle.

Circular No. 18, Division of Botany, second revision. Crimson Clover.

Circular No. 60, Office of Experiment Stations. The Teaching of Agriculture in the Rural Common Schools.

No. 247, Twelfth edition, Division of Publications. List of Bulletins and Circulars issued by the U. S. Department of Agriculture and available for Free Distribution.

Experiment Station Men in the Dual Rôle of Instructor and Investigator. Pp. 313-319. (From Experiment Station Record, Vol. XVI, No. 4.)

FROM ANNUAL REPORTS DEPARTMENT OF AGRICULTURE, 1904.

Report of the Chief of the Division of Biological Survey for 1904. By C. Hart Merriam. Pp. iii, 291-305.

Report of the Chief of the Division of Accounts and Disbursements for 1904. By F. L. Evans. Pp. iii, 307-314.

Report of the Director of the Office of Experiment Stations for 1904. By A. C. True. Pp. iii, 445-523.

Report on the New Department Buildings for 1904. By B. T. Galloway, Chairman Building Committee. Pp. iii, 525-529.

FARMERS' BULLETINS.

The Cotton Bollworm: Some Observations and Results of Field Experiments in 1904. By A. L. Quaintance and F. C. Bishopp, of the Bureau of Entomology. Pp. 32, figs. 2. (Farmers' Bulletin No. 212.)

The investigations are in continuation of those reported in Farmer's Bulletin No. 191, which this bulletin is designed to supersede.

REPRINTS.

No. 24.—Hog Cholera and Swine Plague.

No. 31.—Alfalfa, or Lucern.

No. 35.—Potato Culture.

No. 41.—Fowls: Care and Feeding.

No. 50.—Sorghum as a Forage Crop. Revised edition.

No. 51.—Standard Varieties of Chickens.

No. 57.—Butter Making on the Farm.

No. 75.—The Grain Smuts: How They Are Caused and How to Prevent Them.

No. 91.—Potato Diseases and Their Treatment.

No. 95.—Good Roads for Farmers.

No. 109.—Farmers' Reading Courses.

No. 129.—Sweet Potatoes.

No. 141.—Poultry Raising on the Farm.

- No. 154.—The Home Fruit Garden: Preparation and Care.
 No. 156.—The Home Vineyard, With Special Reference to Northern Conditions.
 No. 161.—Practical Suggestions for Fruit Growers.
 No. 185.—Beautifying the Home Grounds.
 No. 188.—Weeds Used in Medicine.
 No. 190.—Experiment Station Work—XXIV.
 No. 192.—Barnyard Manure.
 No. 195.—Annual Flowering Plants.
 No. 199.—Corn Growing.
 No. 205.—Pig Management.
 No. 208.—Varieties of Fruits Recommended for Planting.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau.]

Monthly Weather Review. Vol. XXXII, No. 11. November, 1904. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 497-546, figs. 6, charts 9. (W. B. No. 321.) Price 20 cents. \$2 per year.

Long-Range Weather Forecasts. Prepared under direction of Willis L. Moore, Chief, U. S. Weather Bureau, by E. B. Garriott, Professor of Meteorology. Pp. 68. (Bulletin No. 35.—W. B. No. 322.) Price 15 cents.

Charts of the Weather Bureau—

Climate and Crop Bulletin (series of 1905), reporting temperature and rainfall with reference to their effect on crops. (No. 1 for the month of January, 1905.)

Snow and Ice Bulletin for Tuesdays, February 7, 14, 21, and 28, 1905. (These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected voluntary observers.)

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GEO. WM. HILL,
Editor and Chief.

Approved:

JAMES WILSON,
Secretary of Agriculture.

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[MARCH, 1905.]

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REPORTS.

Field Operations of the Bureau of Soils, 1903. (Fifth Report.) By Milton Whitney, Chief. With Accompanying Papers by Assistants in Charge of Field Parties. Pp. 1,310, pls. 3, figs. 61. Maps 1 to 78 in separate portfolio. Price, cloth, \$6.35; paper \$6.10.

Annual Reports of the Department of Agriculture for the Year Ended June 30, 1904. Pp. vi, 560.

ADVANCE SHEETS.

- Soil Survey of the Los Angeles Area, California. By Louis Mesmer. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 48, fig. 1. Maps 2.
- Soil Survey of Ouachita Parish, Louisiana. By Thomas D. Rice. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 24, fig. 1. Map 1.
- Soil Survey of the Paris Area, Texas. By Thomas A. Caine and A. E. Kocher. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 34, fig. 1. Map.
- Soil Survey of Winnebago County, Illinois. By George N. Coffey, C. W. Ely, and C. J. Mann, Assisted by J. G. Mosier, R. C. Lloyd, Clifford Willis, and A. F. Kidder, of the Illinois Experiment Station. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 27, fig. 1. Map.
- Soil Survey of the Salem Area, Oregon. By Charles A. Jensen. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 16, fig. 1. Map.
- Soil Survey of the Pikeville Area, Tennessee. By Henry J. Wilder and W. J. Geib. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 31, fig. 1. Map.
- Soil Survey of the Baker City Area, Oregon. By Charles A. Jensen and W. W. Mackie. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 24, fig. 1. Maps 4.
- Soil Survey of the San Luis Valley, Colorado. By J. Garnett Holmes. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 25, fig. 1. Maps 2.
- Soil Survey of the Laramie Area, Wyoming. By N. P. Neill and Party. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 31, fig. 1. Maps 3.
- Soil Survey of Cerro Gordo County, Iowa. By Herbert W. Marean and Grove B. Jones. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 25, fig. 1. Map.
- Soil Survey of the Provo Area, Utah. By Alfred M. Sanchez. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 34, pls. 2, fig. 1. Maps 6.

BULLETINS.

Experiments Concerning Tuberculosis, Under the Supervision of the Biochemic Division. The Comparative Virulence of Human and Bovine Tubercle Bacilli for Some Large Animals. By E. A. de Schweinitz, Ph. D., M. D., and Marion Dorset, M. D., Biochemic Division, Bureau of Animal Industry, and E. C. Schroeder, M. D. V., Superintendent of Experiment Station, Bureau of Animal Industry. Pp. 100, pls. 26. (Bulletin No. 52, Bureau of Animal Industry, Part II.) Price 65 cents.

Injury to Vegetation by Smelter Fumes. By J. K. Haywood, Chief, Insecticide and Agricultural Water Laboratory. Pp. 23, pls. 6, fig. 1. (Bulletin No. 89, Bureau of Chemistry.) Price 5 cents.

Experiment Station Record. Vol. XVI, No. 6. E. W. Allen, Ph. D., Editor. Pp. ix, 629–732. (No single numbers of Vol. XVI sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries;

articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

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Tobacco Investigations in Porto Rico During 1903-4. By J. Van Leenhoff, Jr., Tobacco Expert, Porto Rico Agricultural Experiment Station. Under the Supervision of Office of Experiment Stations, U. S. Department of Agriculture. Pp. 44, frontispiece, pls. 5, fig. 1. (Bulletin No. 5, Porto Rico Agricultural Experiment Station.) Price 5 cents.

Methods of Milking. By F. G. Krauss, Instructor in Agriculture, Kamehameha Boys School, Honolulu. Under the Supervision of Office of Experiment Stations, U. S. Department of Agriculture. Pp. 15, figs. 5. (Bulletin No. 8, Hawaii Agricultural Experiment Station.) Price 5 cents.

Forest Conditions of Northern New Hampshire. By Alfred K. Chittenden, M. F., Assistant Forest Inspector, Bureau of Forestry. Pp. 100, plates 7, maps 2. (Bulletin No. 55, Bureau of Forestry.) Price 25 cents.

Accessions to the Department Library. October-December, 1904. Pp. 66. (Library Bulletin No. 53.) Price 5 cents.

The Development of Single-germ Beet Seed. By C. O. Townsend, Pathologist, and E. C. Rittue, Assistant. Vegetable Pathological and Physiological Investigations. Pp. 26, pls. 8, figs. 6. (Bulletin No. 73, Bureau of Plant Industry.) Price 10 cents.

The Prickly Pear and Other Cacti as Food for Stock. By David Griffiths, Assistant Agrostologist in Charge of Range Investigations. Grass and Forage Plant Investigations. Pp. 48, pls. 5, fig. 1. (Bulletin No. 74, Bureau of Plant Industry.) Price 5 cents.

Imports of Farm and Forest Products, 1901-1903, by Countries from which Consigned. Compiled by the Division of Foreign Markets. Pp. 66. (Bulletin No. 31, Bureau of Statistics.) Price 5 cents.

REPRINTS.

Bulletin No. 29, Bureau of Animal Industry. American Breeds of Fowls. I.—The Plymouth Rock. Price 15 cents.

Bulletin No. 31, Bureau of Animal Industry. American Breeds of Fowls. II.—The Wyandotte. Price 15 cents.

Bulletin No. 37, Bureau of Animal Industry. Market Classes of Horses. Price 15 cents.

Bulletin No. 56, Bureau of Animal Industry. Digestion Experiments with Poultry. Price 20 cents.

Bulletin No. 28, Division of Botany. The Chayote; a Tropical Vegetable. Price 10 cents.

Bulletin No. 46, Division of Chemistry, revised edition. Methods of Analysis Adopted by the Association of Official Agricultural Chemists, November 11, 12, and 14, 1898. Price 5 cents.

Bulletin No. 65, Bureau of Chemistry. Provisional Methods for the Analysis of Foods Adopted by the Association of Official Agricultural Chemists, November 14-16, 1901. Price 10 cents.

Bulletin No. 68, Bureau of Chemistry. The Chemical Composition of Insecticides and Fungicides. Price 5 cents.

Bulletin No. 69, Part II, Bureau of Chemistry. Foods and Food Control. Price 5 cents.

Same. Part III. Price 5 cents.

Same. Part IV. Price 5 cents.

Same. Part V. Price 5 cents.

Bulletin No. 70, Bureau of Chemistry. Manufacture of Table Sirups from Sugar Cane. Price 10 cents.

Bulletin No. 77, Bureau of Chemistry. Olive Oil and Its Substitutes. Price 5 cents.

Bulletin No. 88, Bureau of Chemistry. The Chemical Composition of Apples and Cider. Price 5 cents.

Bulletin No. 3, Bureau of Plant Industry. Macaroni Wheats. Price 20 cents.

CIRCULARS.

New Facts Concerning the Etiology of Hog Cholera. By E. A. de Schweinitz, M. D., Ph. D., and M. Dorset, M. D. Biochemic Division, Bureau of Animal Industry. Pp. 6. (Circular No. 72, Bureau of Animal Industry.)

The Greenhouse White Fly. (*Aleyrodes Vaporariorum* Westw.) B. A. W. Morrill, Special Field Agent. Pp. 9, fig. 1. (Circular No. 57, Bureau of Entomology.)

What Forestry Means to Representative Men. Portions of Addresses Delivered at the American Forest Congress, Washington, January 3 to 6, 1905. Pp. 31. (Circular No. 33, Bureau of Forestry.)

Monthly List of Publications, February, 1905. Pp. 4. (No. 510, Division of Publications.)

Publications of the U. S. Department of Agriculture for sale by the Superintendent of Documents, Government Printing Office, Washington, D. C. Corrected to February 1, 1905. Pp. 63. (No. 179, Division of Publications, 12th edition.)

Foreign Trade in Farm and Forest Products, 1904. By George K. Holmes, Chief of the Division of Foreign Markets. Pp. 19. (Circular No. 16, Bureau of Statistics.)

Crop Reporter. Vol. 6, No. 11. Published by the United States Department of Agriculture Under the Supervision of the Statistician. Pp. 89-96.

A three-column quarto publication devoted to agricultural statistics.

REPRINTS.

Circular No. 48, Bureau of Animal Industry. Scales of Points for Judging Cattle of Dairy Breeds.
Circular No. 54, Bureau of Animal Industry. Pathological Report on a Case of Rabies in a Woman.
Circular No. 62, Bureau of Animal Industry. A Plan for the Improvement of American Breeding Stock.

Circular No. 56, Bureau of Entomology. The Most Important Step in the Cultural System of Controlling the Boll Weevil.

Circular No. 60, Office of Experiment Stations. The Teaching of Agriculture in the Rural Common Schools.

Circular No. 46, Office of Experiment Stations. Revised. The Functions and Uses of Food.

Circular No. 21, Bureau of Forestry, third revision. Practical Assistance to Farmers, Lumbermen, and Others in Handling Forest Lands.

Circular No. 22, Bureau of Forestry, third revision. Practical Assistance to Tree Planters.

Four Common Birds of the Farm and Garden. (From Yearbook of the Department of Agriculture for 1895.) Reprint.

The Meadow Lark and Baltimore Oriole. (From Yearbook of the Department of Agriculture for 1895.) Reprint.

The Blue Jay and Its Food. (From Yearbook of the Department of Agriculture for 1896.) Reprint.

Birds as Weed Destroyers. (From Yearbook of the Department of Agriculture for 1898.) Reprint.

How Birds Affect the Orchard. (From Yearbook of the Department of Agriculture for 1900.) Reprint.

The Food of Nestling Birds. (From Yearbook of the Department of Agriculture for 1900.) Reprint.

Flaxseed Production, Commerce, and Manufacture in the United States. (From Yearbook of the Department of Agriculture for 1902.) Reprint.

Use of Mineral Oil in Road Improvement. (From Yearbook of the Department of Agriculture for 1902.) Reprint.

Development of the Text-Book of Agriculture in North America. (From Annual Report of the Office of Experiment Stations for 1903.) Reprint.

A Model Farm. (From Yearbook of the Department of Agriculture for 1903.) Reprint.

FARMERS' BULLETINS.

Raspberries. By L. C. Corbett, Horticulturist, Bureau of Plant Industry. Pp. 38, figs. 25. (Farmers' Bulletin No. 213.)

Contains information in relation to the propagation, planting, cultivation, harvesting, and curing of raspberries.

Beneficial Bacteria for Leguminous Crops. By George T. Moore, Physiologist and Algologist, in Charge of Plant Physiology, and T. R. Robinson, Assistant in Physiology, Vegetable Pathological and Physiological Investigations, Bureau of Plant Industry. Pp. 48, figs. 17. (Farmers' Bulletin No. 214.)

The Control of the Boll Weevil, Including Results of Recent Investigations. By W. D. Hunter, Special Agent in Charge of Cotton Boll Weevil Investigations, Bureau of Entomology. Pp. 32, figs. 5. (Farmers' Bulletin No. 216.)

Contains recommendations regarding the means of mitigating the damage by this pest; territory affected; present status of State quarantines against the boll weevil and other matters relating to the insect.

Essential Steps in Securing an Early Crop of Cotton. By R. J. Redding, Director of the Georgia Experiment Station. Pp. 16. (Farmers' Bulletin No. 217.)

Discusses the steps necessary to secure early maturity in the natural order of cultural succession, rather than in the order of their importance and effectiveness in producing the desired result.

Lessons from the Grain-Rust Epidemic of 1904. By Mark Alfred Carleton, Cerealists in Charge of Cereal Investigations, Vegetable Pathological and Physiological Investigations, Bureau of Plant Industry. Pp. 24, figs. 6. (Farmers' Bulletin No. 219.)

REPRINTS.

- No. 34.—Meats: Composition and Cooking.
 No. 38.—Spraying for Fruit Diseases.
 No. 42.—Facts about Milk.
 No. 44.—Commercial Fertilizers; Composition and Use.
 No. 47.—Insects Affecting the Cotton Plant.
 No. 49.—Sheep Feeding.
 No. 56.—Experiment Station Work—I.
 No. 61.—Asparagus Culture.
 No. 62.—Marketing Farm Produce.
 No. 63.—Care of Milk on the Farm.
 No. 64.—Ducks and Geese; Standard Breeds and Management.
 No. 66.—Meadows and Pastures: Formation and Cultivation in the Middle Eastern States. [Edition of March, 1904.]
 No. 81.—Corn Culture in the South.
 No. 100.—Hog Raising in the South.
 No. 103.—Experiment Station Work—XI.
 No. 105.—Experiment Station Work—XII.
 No. 106.—Breeds of Dairy Cattle.
 No. 107.—Experiment Station Work—XIII.
 No. 111.—The Farmers' Interest in Good Seed.
 No. 112.—Bread and the Principles of Bread Making.
 No. 113.—The Apple and How to Grow It. (Revised edition.)
 No. 124.—Experiment Station Work—XVII.
 No. 132.—The Principal Insect Enemies of Growing Wheat.
 No. 143.—Conformation of Beef and Dairy Cattle.
 No. 144.—Experiment Station Work—XIX.
 No. 148.—Celery Culture.
 No. 151.—Dairying in the South.
 No. 166.—Cheese Making on the Farm.
 No. 175.—Home Manufacture and Use of Fermented Grape Juice.
 No. 177.—Squab Raising. (Revised May, 1904.)
 No. 182.—Poultry as Food.
 No. 193.—Experiment Station Work—XXV.
 No. 202.—Experiment Station Work—XXVI.
 No. 206.—Milk Fever: Its Simple and Successful Treatment.
 No. 207.—Game Laws for 1904. A Summary of the Provisions Relating to Seasons, Shipments, Sale, and Licenses.
 No. 208.—Varieties of Fruits Recommended for Planting.
 No. 210.—Experiment Station Work—XXVII.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau.]

- Monthly Weather Review. Vol. XXXII, No. 12. December, 1904. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 547-592, figs. 2, charts 15. (W. B. No. 323.) Price 20 cents; \$2 per year.
 Meteorological Chart of the Great Lakes. No. 2, 1904. By Alfred J. Henry and Norman B. Conger. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 18, chart 1. (W. B. No. 324.) Price 10 cents.
 Periodic Variation of Rainfall in the Arid Region. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau, by William B. Stockman, Chief, Division of Meteorological Records. Pp. 15, map. Bulletin N. (W. B. No. 326.) Price 10 cents.
 Evaporation Observations in the United States. By Herbert Harvey Kimball, Librarian, U. S. Weather Bureau. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 4, fig. 1. (W. B. No. 327.)
 Charts of the Weather Bureau—

Climate and Crop Bulletin (series of 1905), reporting temperature and rainfall with reference to their effect on crops. (No. 2 for the month of February, 1905.)

Snow and Ice Bulletin for Tuesdays, March 7, 14, 21, and 28, 1905. (These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected voluntary observers.)

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

NOT AVAILABLE.

- New Agricultural Building at the North Carolina College of Agriculture and Mechanic Arts. (From Experiment Station Record, Vol. XVI, No. 6.)
 Experiment Station Record. Vol. VIII. No. 1. (Reprint.)
 Experiment Station Record. Vol. V. No. 11. (Reprint.)
 Circular No. 16, Bureau of Chemistry. Officials Charged with the Enforcement of Food Laws in the United States and Canada. (Reprint.)

GEO. WM. HILL,
Editor and Chief.

Approved:

JAMES WILSON,
Secretary of Agriculture.

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture, DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., April 29, 1905.

MONTHLY LIST OF PUBLICATIONS. [APRIL, 1905.]

NOTE.—To obtain those publications, to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.

Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents. In all cases where officials desire to exchange publications application should be made to the Department of Agriculture.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

ADVANCE SHEETS.

Soil Survey of the Blackfoot Area, Idaho. By W. E. McLendon. [Advance Sheets—Field Operations of the Bureau of Soils, 1903.] Pp. 22, fig. 1, maps 2.

BULLETINS.

NEW.

Index-Catalogue of Medical and Veterinary Zoology. [Authors: H to Heim.] By Ch. Wardell Stiles, Ph. D., Consulting Zoologist of Bureau of Animal Industry; Zoologist of U. S. Public Health and Marine-Hospital Service, and Albert Hassall, M. R. C. V. S., Veterinary Inspector, Bureau of Animal Industry. Pp. 661-706. (Bulletin No. 39. Part 9.) Price 5 cents.

Same. Part 10. [Authors: Heim to Hyrtl.] Pp. 707-782. Price 5 cents.

Same. Part 11. [Authors: I to a Juvattis.] Pp. 783-838. Price 5 cents.

Information Concerning The Milch Goats. By George Fayette Thompson, M. S., Editor of Bureau of Animal Industry. Pp. 87, pls. 16, figs. 7. (Bulletin No. 68, Bureau of Animal Industry. Price 15 cents.

The External Parasites of Hogs, Being Articles on The Hog Louse (*Haematopinus suis*) and Mange, or Scabies, of Hogs. By Earle C. Stevenson, B. Sc., A. M., Zoological Laboratory, Bureau of Animal Industry. Pp. 44, figs. 29. (Bulletin No. 69, Bureau of Animal Industry.) Price 5 cents.

The Etiology of Hog Cholera. By M. Dorset, M. D., B. M. Bolton, M. D., and C. N. McBryde, M. D., Biochemic Division, Bureau of Animal Industry. Pp. 101. (Bulletin No. 72, Bureau of Animal Industry.) Price 10 cents.

Coyotes in Their Economic Relations. By David E. Lantz, Assistant, Biological Survey. Pp. 28. (Bulletin No. 20, Division of Biological Survey.) Price 5 cents.

Dietary Studies with Harvard University Students. By Edward Mallinckrodt, Jr. Pp. 63. (Bulletin No. 152, Office of Experiment Stations.) Price 5 cents.

Experiment Station Record. Vol. XVI. No. 7. E. W. Allen, Ph. D., Editor. Pp. ix, 629-732. (No single numbers of Vol. XVI sold.)

Experiment Station Record. Vol. XVI. No. 8. E. W. Allen, Ph. D., Editor. Pp. x, 733-836. (No single numbers of Vol. XVI sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has decided to fix the price per volume (12 numbers) beginning with Volume X, at \$1, payable in advance.

- A Primer of Forestry. Part II. Practical Forestry. (Bulletin No. 24, Bureau of Forestry.) Price 30 cents.
- North American Species of Agrostis. By A. S. Hitchcock, Systematic Agrostologist in Charge of Herbarium. Grass and Forage Plant Investigations. Pp. 68, pls. 37, figs. 2. (Bulletin No. 68, Bureau of Plant Industry.) Price 10 cents.
- Copper as an Algicide and Disinfectant in Water Supplies. By George T. Moore, Physiologist and Algologist in Charge of the Laboratory of Plant Physiology, and Karl F. Kellerman, Assistant in Physiology. Vegetable Pathological and Physiological Investigations. Pp. 55. (Bulletin No. 76, Bureau of Plant Industry.) Price 5 cents.
- Investigations in Soil Management. Part I. Amount of Plant Food Readily Recoverable from Field Soils with Distilled Water. Part II. Relation of Crop Yields to the Amounts of Water-Soluble Plant-Food Materials Recovered from Soils. Part III. Relation of Differences of Climatological Environment to Crop Yields. By Prof. F. H. King, Chief of the Division of Soil Management. Pp. 205, pls. 4, figs. 9. (Bulletin No. 26, Bureau of Soils.) Price 15 cents.
- Exports of Farm and Forest Products, 1901-1903. By Countries to which Consigned. Compiled by the Division of Foreign Markets. Pp. 100. (Bulletin No. 32, Bureau of Statistics.) Price 5 cents.

REPRINTS.

- Bulletin No. 34, Bureau of Animal Industry. American Breeds of Beef Cattle with Remarks on Pedigrees. Price 20 cents.
- Bulletin No. 47, Bureau of Animal Industry. The Hog Industry. Part I. Price 10 cents.
- Bulletin No. 9, Division of Biological Survey. Cuckoos and Shrikes In their Relation to Agriculture. Price 5 cents.
- Bulletin No. 13, Division of Biological Survey. Food of the Bobolink, Black-birds, and Grackles. Price 5 cents.
- Bulletin No. 15, Division of Biological Survey. The Relation of Sparrows to Agriculture. Price 10 cents.
- Bulletin No. 17, Division of Biological Survey. Birds of a Maryland Farm: A Local Study of Economic Ornithology. Price 15 cents.
- Bulletin No. 69, Part I, Bureau of Chemistry. Foods and Food Control. Price 5 cents.
- Bulletin No. 74, Bureau of Chemistry. The Influence of Soil and Climate Upon the Composition of the Sugar Beet, 1901. Price 5 cents.
- Bulletin No. 1, New Series, Division of Entomology. The Honey Bee: A Manual of Instruction in Apiculture. Price 15 cents.
- Bulletin No. 101, Office of Experiment Stations. Studies on Bread and Bread Making at the University of Minnesota in 1899 and 1900. Price 10 cents.
- Bulletin No. 102, Office of Experiment Stations. Experiments on Losses in Cooking Meat. 1898-1900. Price 5 cents.
- Bulletin No. 4, Porto Rico Agricultural Experiment Station. Propagation and Marketing of Oranges in Porto Rico. Price 10 cents.
- Bulletin No. 7, Forestry Division. Forest Influences. Price 15 cents.
- Bulletin No. 24, Office of Public Road Inquiries. Proceedings of the North Carolina Good Roads Convention, Held at Raleigh, February 12 and 13, 1902. Price 10 cents.

CIRCULARS.

NEW.

- United States and State Standards for Dairy Products, 1905. Prepared under the supervision of Ed. H. Webster, Chief of the Dairy Division. Pp. 2. (Circular No. 74, Bureau of Animal Industry.)
- Directions for Collecting Birds' Stomachs. By C. Hart Merriam, Chief Biological Survey. P. 1. (Circular No. 46, Biological Survey.)
- Recommendations of State Game Commissioners and Wardens for 1905. (Circular No. 47, Division of Biological Survey.)
- Methods for the Examination of Maple Products. By Julius Hortvet, Associate Referee on Saccharine Products, A. O. A. C., Dairy and Food Department. Pp. 8. (Circular No. 23, Bureau of Chemistry.)
- Report on the Gypsy Moth and the Brown-Tail Moth, July, 1904. By C. L. Marlatt, in Charge of Experimental Field Work. Pp. 12, figs. 2. (Circular No. 58, Bureau of Entomology.)

- The Corn Root-Worms. By F. H. Chittenden, in Charge of Breeding Experiments. Pp. 8, figs. 3. (Circular No. 59, Bureau of Entomology.)
- Monthly List of Publications, March, 1905. Pp. 4. (No. 512, Division of Publications.)
- Crop Reporter. Vol. 6, No. 12. Published by the United States Department of Agriculture under the Supervision of the Statistician. Pp. 97-104.
- A three-column quarto publication devoted to agricultural statistics.

REPRINTS.

- Circular No. 50, Bureau of Animal Industry. Information for Importers of Animals for Breeding Purposes.
- Circular No. 56, Bureau of Animal Industry. Facts Concerning the History, Commerce, and Manufacture of Butter.
- Circular No. 64, Bureau of Animal Industry. A New Nematode (*Gongylonema ingluvicola*) Parasitic in the Crop of Chickens.
- Circular No. 17, Division of Biological Survey. Bird Day in the Schools.
- Circular No. 15, Bureau of Chemistry. Results of Borax Experiments.
- Circular No. 20, Bureau of Chemistry. Extracts from the Proceedings of the Association of Official Agricultural Chemists, 1904.
- Circular No. 9, second series, Division of Entomology. Canker-worms.
- Circular No. 11, second series, Division of Entomology. The Rose-Chafer. (*Macrodactylus subspinosus* Fab.)
- Circular No. 16, second series, Division of Entomology. The Larger Corn Stalk-borer. (*Diatraça saccharalis* Fab.)
- Circular No. 39, revised, Bureau of Entomology. The Common Squash Bug. (*Anasa tristis* DeG.)
- Circular No. 47, second series, Bureau of Entomology. The Bedbug. (*Cimex lectularius* Linn.)
- Circular No. 49, Office of Experiment Stations. Secondary Courses in Agriculture.
- Circular No. 21, Bureau of Forestry. Third Revision. Practical Assistance to Farmers, Lumbermen, and Others in Handling Forest Lands.
- Circular No. 22, Bureau of Forestry, Third Revision. Practical Assistance to Tree Planters.
- Two Vanishing Game Birds: The Woodcock and the Wood Duck. (From Yearbook of Department of Agriculture for 1901.) Reprint.
- A Model Farm. (From Yearbook of Department of Agriculture for 1903.)
- The Relation of Forests to Stream Flow. (From Yearbook of Department of Agriculture for 1903.) Reprint.
- Report of Irrigation Investigation for 1902. No. 3. (From Office of Experiment Stations Bulletin No. 133.)

FARMERS' BULLETINS.

NEW.

- Alfalfa Growing. By A. S. Hitchcock, in Charge of Alfalfa and Clover Investigations, Grass and Forage Plant Investigations, Bureau of Plant Industry. Pp. 40, figs. 8. (Farmers' Bulletin No. 215.)
- Gives history and description of plant, treats of the conditions required for cultivation, methods of cultivation, pasturing, uses, feeding value, and enemies of alfalfa.
- The School Garden. By L. C. Corbett, Horticulturist, Bureau of Plant Industry. Pp. 40, figs. 33. (Farmers' Bulletin No. 218.)
- Directions and suggestions for starting and conducting school gardens and for the decoration of school grounds.
- Fungous Diseases of the Cranberry. By C. L. Shear, Pathologist, Vegetable Pathological and Physiological Investigations, Bureau of Plant Industry. Pp. 16, figs. 11. (Farmers' Bulletin No. 221.)
- Describes the diseases of the cranberry and gives remedies and treatment.
- No. 22.—The Feeding of Farm Animals. Revised edition.
- No. 24.—Hog Cholera and Swine Plague.
- No. 28.—Weeds: And How to Kill Them.
- No. 35.—Potato Culture.
- No. 41.—Fowls: Care and Feeding.
- No. 45.—Some Insects Injurious to Stored Grain.
- No. 48.—The Manuring of Cotton.
- No. 51.—Standard Varieties of Chickens.
- No. 54.—Some Common Birds in Their Relation to Agriculture.
- No. 55.—The Dairy Herd: Its Formation and Management.
- No. 58.—The Soy Bean as a Forage Crop.
- No. 59.—Bee Keeping.
- No. 60.—Methods of Curing Tobacco. Second revised edition.
- No. 62.—Marketing Farm Produce.
- No. 64.—Ducks and Geese: Standard Breeds and Management.
- No. 65.—Experiment Station Work—II.
- No. 71.—Some Essentials in Beef Production.
- No. 74.—Milk as Food.
- No. 82.—The Culture of Tobacco.
- No. 86.—Thirty Poisonous Plants of the United States.
- No. 89.—Cowpeas.
- No. 91.—Potato Diseases and Their Treatment.
- No. 94.—The Vegetable Garden.
- No. 95.—Good Roads for Farmers.
- No. 96.—Raising Sheep for Mutton.
- No. 100.—Hog Raising in the South.
- No. 102.—Southern Forage Plants.

- No. 103.—Experiment Station Work—XI.
 No. 106.—Breeds of Dairy Cattle.
 No. 113.—The Apple and How to Grow It.
 No. 120.—The Principal Insects Affecting the Tobacco Plant.
 No. 122.—Experiment Station Work—XVI.
 No. 126.—Practical Suggestions for Farm Buildings.
 No. 127.—Important Insecticides: Directions for Their Preparation and Use.
 No. 128.—Eggs and Their Uses as Food. Revised March 25, 1905.
 No. 129.—Sweet Potatoes.
 No. 134.—Tree Planting on Rural School Grounds.
 No. 138.—Irrigation in Field and Garden.
 No. 141.—Poultry Raising on the Farm.
 No. 143.—Conformation of Beef and Dairy Cattle.
 No. 147.—Winter Forage Crops for the South.
 No. 149.—Experiment Station Work—XX.
 No. 154.—The Home Fruit Garden: Preparation and Care.
 No. 155.—How Insects Affect Health in Rural Districts.
 No. 156.—The Home Vineyard, with Special Reference to Northern Conditions.
 No. 157.—The Propagation of Plants.
 No. 158.—How to Build Small Irrigation Ditches.
 No. 161.—Practical Suggestions for Fruit Growers.
 No. 164.—Rape as a Forage Crop.
 No. 169.—Experiment Station Work—XXII.
 No. 170.—Principles of Horse Feeding.
 No. 174.—Broom Corn.
 No. 177.—Squab Raising. Revised edition.
 No. 179.—Horseshoeing.
 No. 181.—Pruning.
 No. 183.—Meat on the Farm: Butchering, Curing, and Keeping.
 No. 185.—Beautifying the Home Grounds.
 No. 186.—Experiment Station Work—XXIII.
 No. 187.—Drainage of Farm Lands.
 No. 188.—Weeds Used in Medicine.
 No. 192.—Barnyard Manure.
 No. 193.—Experiment Station Work—XXV.
 No. 195.—Annual Flowering Plants.
 No. 198.—Strawberries.
 No. 199.—Corn Growing.
 No. 200.—Turkeys: Standard Varieties and Management.
 No. 202.—Experiment Station Work—XXVI.
 No. 203.—Canned Fruit, Preserves, and Jellies: Household Methods of Preparation.
 No. 204.—The Cultivation of Mushrooms.
 No. 205.—Pig Management.
 No. 206.—Milk Fever: Its Simple and Successful Treatment.
 No. 214.—Beneficial Bacteria for Leguminous Crops.
 No. 216.—The Control of the Boll Weevil. Including Results of Recent Investigations.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau.]

Monthly Weather Review. Vol. XXXII, No. 13. Annual Summary, 1904. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. xiii, 563-627, charts 13. (W. B. No. 325.) Price 20 cents; \$2 per year.

Monthly Weather Review. Vol. XXXIII, No. 1. January, 1905. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 40, charts 11. (W. B. No. 328.) Price 20 cents; \$2 per year.

Charts of the Weather Bureau—

Climate and Crop Bulletin (series of 1905), reporting temperature and rainfall with reference to their effect on crops. (No. 3 for the month of March, and Nos. 4, 5, and 6 for the month of April, 1905.)

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

PUBLICATIONS NOT AVAILABLE.

REPRINTS.

- Experiment Station Record, Vol. I, No. 3.
 Experiment Station Record, Vol. V, No. 1.
 Experiment Station Record, Vol. VII, No. 2.
 Experiment Station Record, Vol. VIII, No. 3.
 Experiment Station Record, Vol. VIII, No. 4.
 Experiment Station Record, Vol. VIII, No. 5.
 Experiment Station Record, Vol. VIII, No. 6.
 Experiment Station Record, Vol. VIII, No. 7.
 Experiment Station Record, Vol. VIII, No. 8.
 Experiment Station Record, Vol. VIII, No. 9.
 Experiment Station Record, Vol. VIII, No. 10.
 Experiment Station Record, Vol. VIII, No. 11.

GEO. WM. HILL,
Editor and Chief,

Approved:

JAMES WILSON,

Secretary of Agriculture:

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p96m

This circular will be sent regularly to all who apply for it.

No. 514.

United States Department of Agriculture,
DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., May 31, 1905.

MONTHLY LIST OF PUBLICATIONS.

[MAY, 1905.]

NOTE.—To obtain those publications, to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

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REPORTS.

NEW.

Progress of the Beet Sugar Industry in the United States in 1904. Pp. 183, pls. 4, figs. 2. Prepared by Charles F. Saylor, Special Agent, Department of Agriculture. (Report No. 80.) Congressional Publication. Price 10 cents.

Yearbook of the U. S. Department of Agriculture, 1904. Pp. 776, frontispiece, pls. 75, figs. 64. Price 65 cents.

The Yearbook contains the annual report of the Secretary of Agriculture, 118 pages, and thirty-one miscellaneous papers, 420 pages, covering a wide variety of subjects thoroughly representative of the varied scientific work conducted by the Department. Also an Appendix, 204 pages, and Index, 44 pages.

The Appendix contains lists of names and post-offices of persons prominent in agricultural work in all its branches. It presents summaries of agricultural observations in several fields, legislation on roads and contagious diseases of animals, and a statement of public lands open for settlement. It closes with the usual statistical tables covering production and prices of the principal crops and farm animals, and the imports and exports of agricultural products.

Only 6 per cent of this publication is assigned to this Department, which is insufficient to supply even its regular correspondents and coworkers. Miscellaneous applicants are therefore respectfully referred to their Senators, Representatives, and Delegates in Congress, to whom the other 94 per cent is allotted for distribution. The Superintendent of Documents has it for sale at 65 cents per copy.

BULLETINS.

NEW.

Necrotic Stomatitis. With Special Reference to Its Occurrence in Calves (Calf Diphtheria) and Pigs (Sore Mouth). By John R. Mohler, A. M., V. M. D., Chief of Pathological Division, Bureau of Animal Industry, and Geo. Byron Morse, M. D., V. S., Assistant in Pathological Division, Bureau of Animal Industry. Pp. 48, pls. 5. (Bulletin No. 67, Bureau of Animal Industry.) Price 10 cents.

The Milk Supply of Twenty-nine Southern Cities. By C. F. Doane, M. S., Special Agent of Dairy Division, Bureau of Animal Industry. Pp. 40. (Bulletin No. 70, Bureau of Animal Industry.) Price 5 cents.

The Camembert Type of Soft Cheese in the United States. By H. W. Conn, Charles Thom, A. W. Bosworth, W. A. Stocking, jr., and T. W. Issajeff. Pp. 29, pls. 2. (Bulletin No. 71, Bureau of Animal Industry.) Price 5 cents.

Experiments concerning Tuberculosis, under the Supervision of the Biochemic Division. Studies in Immunity from Tuberculosis. By E. C. Schroeder, M. D. V., Superintendent of Experiment Station, Bureau of Animal Industry. The Persistence of Tubercle Bacilli in Tissues of Animals after Injection. By E. C. Schroeder and W. E. Cotton. Pp. v, 101-125. (Bulletin No. 52, Part III, Bureau of Animal Industry.) Price 5 cents.

The Effect of Water on Rock Powders. By Allerton S. Cushman, Chemist, Division of Tests. Pp. 24, pls. 4. (Bulletin No. 92, Bureau of Chemistry.) Price 15 cents.

Experiment Station Record. Vol. XVI, No. 9. E. W. Allen, Ph. D., Editor. Pp. 837-940. (No single copies of Vol. XVI sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has decided to fix the price per volume (12 numbers) beginning with Volume X, at \$1, payable in advance.

Extermination of Johnson Grass. By W. J. Spillman, Agrostologist. Grass and Forage Plant Investigations. Pp. 14, pls. 3, figs. 4. (Bulletin No. 72, Part III, Bureau of Plant Industry.) Price 5 cents.

Inoculation of Soil with Nitrogen-Fixing Bacteria. By A. F. Woods, Acting Chief of the Bureau of Plant Industry. Grass and Forage Plant Investigations. Pp. 10. (Bulletin No. 72, Part IV, Bureau of Plant Industry.) Price 5 cents.

Range Management in the State of Washington. By J. S. Cotton, Assistant in Range Investigations, in Cooperation with the Washington State Experimental Station. Grass and Forage Plant Investigations. Pp. 28, pls. 3. (Bulletin No. 75, Bureau of Plant Industry.) Price 5 cents.

Trade with Noncontiguous Possessions, in Farm and Forest Products, 1901-1903. Compiled by the Division of Foreign Markets. Pp. 40. (Bulletin No. 33, Bureau of Statistics.) Price 5 cents.

REPRINTS.

Bulletin No. 47, Bureau of Animal Industry. The Hog Industry. Price 30 cents.

Bulletin No. 18, Division of Biological Survey. Distribution and Migration of North American Warblers. Price 10 cents.

Bulletin No. 13, Part X, Bureau of Chemistry. Foods and Food Adulterants, Part X, Preserved Meats. Price 15 cents.

Bulletin No. 33, Office of Experiment Stations. The Cotton Plant: Its History, Botany, Chemistry, Culture, Enemies, and Uses. Price 35 cents.

Bulletin No. 151, Office of Experiment Stations. Organization Lists of the Agricultural Colleges and Experiment Stations in the United States. Price 10 cents.

Bulletin No. 71, Bureau of Plant Industry. Soil Inoculation for Legumes, with Reports upon the Successful Use of Artificial Cultures by Practical Farmers. Price 15 cents.

Bulletin No. 11, Division of Soils. Tobacco Soils of the United States: A Preliminary Report upon the Soils of the Principal Tobacco Districts. Price 10 cents.

CIRCULARS.

NEW.

Distribution and Magnitude of the Poultry and Egg Industry. By George F. Thompson, M. S. Pp. 22. (Circular No. 73, Bureau of Animal Industry.)

The Imported Cabbage Worm. By F. H. Chittenden, in Charge of Breeding Experiments. Pp. 8, figs. 6. (Circular No. 60, Bureau of Entomology.)

Monthly List of Publications, April. Pp. 4. (No. 513, Division of Publications.)

Crop Reporter, Vol. 7, No. 1. Published by the United States Department of Agriculture, under the Supervision of the Statistician. Pp. 1-8.

A three-column quarto publication devoted to agricultural statistics.

REPRINTS.

- Circular No. 11, Office of the Secretary. Methods and Benefits of Growing Sugar Beets.
- Circular No. 12, revised, Bureau of Chemistry. Methods for the Investigation of Canceling Inks and Other Stamping Inks.
- Circular No. 26, Second Series, Division of Entomology. The Pear Slug.
- Circular No. 31, revised edition, Division of Entomology. The Striped Cucumber Beetle. (*Diabrotica vittata* Fab.)
- Circular No. 32, second revision, Bureau of Entomology. The Larger Apple-Tree Borers.
- Circular No. 52, second revision, Office of Experiment Stations. A Few Good Books and Bulletins on Nature Study, School Gardening and Elementary Agriculture, for Common Schools.

FARMERS' BULLETINS.

NEW.

- Tomatoes. By L. C. Corbett, Horticulturist, Bureau of Plant Industry. Pp. 32, figs. 13. (Farmers' Bulletin No. 220.)

Directions for growing, harvesting, and packing tomatoes, with description of diseases and treatment. This bulletin is designed to supersede Farmers' Bulletin No. 76, entitled Tomato Growing.

- Experiment Station Work—XXVIII. Compiled from the publications of the Agricultural Experiment Stations. Pp. 32, fig. 1. (Farmers' Bulletin No. 222.)

CONTENTS: Home Mixing Fertilizers—Sweet Corn in the South—Kherson Oats—Cowpea Hay—Weight of Feeds—Grain Rations—Horse Feeding—Classification of Swine—Silage for Dairy Cows.

REPRINTS.

- No. 38.—Spraying for Fruit Diseases.
- No. 39.—Onion Culture.
- No. 43.—Sewage Disposal on the Farm, and Protection of Drinking Water.
- No. 57.—Butter Making on the Farm.
- No. 66.—Meadows and Pastures.
- No. 77.—The Liming of Soils.
- No. 98.—Suggestions to Southern Farmers.
- No. 118.—Grape Growing in the South.
- No. 164.—Rape as a Forage Crop.
- No. 170.—Principles of Horse Feeding.
- No. 181.—Pruning.
- No. 203.—Canned Fruit, Preserves, and Jellies. Household Methods of Preparation. (Corrected March 25, 1905.)
- No. 208.—Varieties of Fruits Recommended for Planting.
- No. 210.—Experiment Station Work—XXVII.
- No. 217.—Essential Steps in Securing an Early Crop of Cotton.
- No. 219.—Lessons from the Grain-Rust Epidemic of 1904.

MISCELLANEOUS.

- Regulations of the Secretary of Agriculture governing the Inspection, Disinfection, Certification, Treatment, Handling, and Method and Manner of Delivery and Shipment of Live Stock Which is the Subject of Interstate Commerce. Pp. 27. (Bureau of Animal Industry.) Price 5 cents.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau.]

- Monthly Weather Review. Vol. XXXIII, No. 2. February, 1905. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 41-83, charts 17. (W. B. No. 329.) Price 20 cents. \$2 per year.

Monthly Weather Review. Vol. XXXIII, No. 3. March, 1905. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 85-125, charts 12. (W. B. No. 330.) Price 20 cents. \$2 per year.

Charts of the Weather Bureau—

Climate and Crop Bulletin (series of 1905), reporting temperature and rainfall with reference to their effect on crops. (Nos. 7, 8, 9, 10, and 11 for the month of May, 1905.)

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

PUBLICATIONS NOT AVAILABLE FOR DISTRIBUTION.

Expenditures in the Department of Agriculture. Letter from the Secretary of Agriculture presenting a detailed statement of the expenditures of the Department for the fiscal year ending June 30, 1904, including supplemental accounts. Pp. 476. (House Document No. 256.)

Experiment Station Record. Vol. I. No. 4.

Experiment Station Record. Vol. I. No. 5.

Experiment Station Record. Vol. I. No. 6.

Experiment Station Record. Vol. II. No. 2.

Experiment Station Record. Vol. II. No. 9.

Approved:

JAMES WILSON,

Secretary of Agriculture.

GEO. WM. HILL,

Editor and Chief.

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This circular will be sent regularly to all who apply for it.

No. 516.

United States Department of Agriculture,
DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *June 30, 1905.*

MONTHLY LIST OF PUBLICATIONS.

[JUNE, 1905.]

NOTE.—To obtain those publications, to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

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The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

BULLETINS.

NEW.

The External Parasites of Hogs, being Articles on the Hog Louse and Mange, or Scabies, of Hogs. By Earle C. Stevenson, B. Sc., A. M., Zoological Laboratory, Bureau of Animal Industry. Pp. 44, figs. 29. (Bulletin No. 69, Bureau of Animal Industry.) Price 5 cents.

Miscellaneous Papers. Part I. Cultivation of Wheat in Permanent Alfalfa Fields. By David Fairchild, Agricultural Explorer. Part II. The Salt Water Limits of Wild Rice. By Carl S. Scofield, Botanist, Grain Grade Investigations. Part III. Extermination of Johnson Grass. By W. J. Spillman, Agrostologist. Part IV. Inoculation of Soil with Nitrogen-Fixing Bacteria. By A. F. Woods, Acting Chief of Bureau. Pp. 30, pls. 3, figs. 4. (Bulletin No. 72, Bureau of Plant Industry.) Price 5 cents.

Report on an Examination of a Forest Tract in Western North Carolina. By Franklin W. Reed, Forest Assistant, Bureau of Forestry. Pp. 32, pls. 6, map. (Bulletin No. 60, Bureau of Forestry.) Price 5 cents.

Experiments in Growing Cuban Seed Tobacco in Texas. By George T. McNess and Walter M. Hinson. Pp. 44. (Bulletin No. 27, Bureau of Soils.) Price 5 cents.

The Cotton Bollworm. By A. L. Quaintance and C. T. Brues. Pp. 155, pls. 25, figs. 27. (Bulletin No. 50, Bureau of Entomology.) Price 25 cents.

Catalogue of the Exhibit of Economic Entomology at the Lewis and Clark Centennial Exposition, Portland, Oreg., 1905. Compiled under the direction of the Entomologist by Rolla P. Currie. Pp. 127. (Bulletin No. 53, Bureau of Entomology.) Price 10 cents.

Proceedings of the Ninth Annual Meeting of the American Association of Farmers' Institute Workers. Edited by W. H. Beal and John Hamilton, for the Office of Experiment Stations, and G. C. Creelman, for the Association. Pp. 91. (Bulletin No. 154, Office of Experiment Stations.) Price 5 cents.

Accessions to the Department Library. January-March, 1905. Pp. 59. (Library Bulletin No. 54.) Price 5 cents.

Experiment Station Record, Vol. XVI, No. 10. E. W. Allen, Ph. D., Editor.
Pp. i-ix, 941-1042. (No single copies of Vol. XVI sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has decided to fix the price per volume (12 numbers) beginning with Volume X, at \$1, payable in advance.

REPRINTS.

- Bulletin No. 44, Bureau of Animal Industry. Infectiveness of Milk of Cows which have Reacted to the Tuberculin Test. Price 10 cents.
- Bulletin No. 63, Bureau of Animal Industry. Foot-rot of Sheep: Its Nature, Cause, and Treatment. Price 10 cents.
- Bulletin No. 68, Bureau of Animal Industry. Information Concerning Milch Goats. Price 15 cents.
- Bulletin No. 72, Bureau of Animal Industry. The Etiology of Hog Cholera. Price 10 cents.
- Bulletin No. 48, Bureau of Plant Industry. The Apple in Cold Storage. Price 15 cents.
- Bulletin No. 72, Part I, Bureau of Plant Industry. Cultivation of Wheat in Permanent Alfalfa Fields. Price 5 cents.
- Bulletin No. 76, Bureau of Plant Industry. Copper as an Algicide and Disinfectant in Water Supplies. Price 5 cents.
- Bulletin No. 13, Bureau of Chemistry. Food and Food Adulterants, Part Ninth, Cereals and Cereal Products. Price 15 cents.
- Bulletin No. 43, Division of Entomology. A Brief Account of the Principal Insect Enemies of the Sugar Beet. Price 5 cents.
- Bulletin No. 10, Division of Biological Survey. Life Zones and Crop Zones of the United States. Price 10 cents.
- Bulletin No. 31, Office of Experiment Stations. Dietary Studies at the University of Missouri in 1895, and Data Relating to the Bread and Meat Consumption in Missouri. Price 5 cents.

CIRCULARS.

NEW.

- Anthrax in Cattle, Horses, and Men. Reprint from Special Report on the Diseases of Cattle, 1904, and Special Report on Diseases of the Horse, 1903. (Revised by Drs. Salmon and Mohler.) Pp. 10. (Circular No. 71, Bureau of Animal Industry.)
- Feeding Fat into Milk; or the Effect of the Food upon the Quality and Quantity of Milk Produced. Recent Experimental Inquiry upon Milk Secretion. By Chas. D. Woods, B. S. The Physiology of Milk Secretion. By A. W. Bitting, M. D. Pp. 43. (Circular No. 75, Bureau of Animal Industry.)
- Animal Breeding and Feeding Investigations. By D. E. Salmon, D. V. M., Chief of the Bureau of Animal Industry. Pp. 14, pl. 1, fig. 1. (Circular No. 77, Bureau of Animal Industry.)
- Glanders and Farcy. By Rush Shippen Huidekoper, M. D., Vet. Revised by Leonard Pearson, B. S., V. M. D. Pp. 12. (Circular No. 78, Bureau of Animal Industry.)
- The Tuberculin Test for Tuberculosis. By D. E. Salmon, D. V. M., Chief of the Bureau of Animal Industry. Pp. 14. (Circular No. 79, Bureau of Animal Industry.)
- Officials, Associations, and Educational Institutions Connected with the Dairy Interests of the United States for 1905. Pp. 12. (Circular No. 80, Bureau of Animal Industry.)

What Forestry Means to Representative Men. Portions of Addresses Delivered at the American Forest Congress, Washington, January 3 to 6, 1905. Pp. 31. (Circular No. 33, Bureau of Forestry.)

Practical Results of the Cup and Gutter System of Turpentining. By Charles H. Herty, Ph. D. Pp. 7, figs. 5. (Circular No. 34, Bureau of Forestry.)

Manurial Requirements of the Leonardtown Loam Soil of St. Mary County, Md. By Frank D. Gardner, in Charge of Soil Management, Bureau of Soils. Pp. 13. (Circular No. 15, Bureau of Soils.)

Black Check in Western Hemlock. By H. E. Burke, Special Field Agent. Pp. 10, figs. 5. (Circular No. 61, Bureau of Entomology.)

The Cabbage Hair-Worm. By F. H. Chittenden, In Charge of Breeding Experiments, Bureau of Entomology. Pp. 6, fig. 1. (Circular No. 62, Bureau of Entomology.)

Root-Maggots and How to Control Them. By F. H. Chittenden, In Charge of Breeding Experiments, Bureau of Entomology. Pp. 7, figs. 5. (Circular No. 63, Bureau of Entomology.)

Monthly List of Publications, May. Pp. 4. (No. 514, Division of Publications.)

Crop Reporter, Vol. 7, No. 2. Published by the United States Department of Agriculture, under the Supervision of the Statistician. Pp. 10-16.

A three-column quarto publication devoted to agricultural statistics.

REPRINTS.

Circular No. 65, Bureau of Animal Industry. Ophthalmia in Cattle.

Circular No. 66, Bureau of Animal Industry. Osteomalacia, or Creeps, in Cattle.

Circular No. 67, Bureau of Animal Industry. Abortion, or Slinking the Calf.

Circular No. 68, Bureau of Animal Industry. Diseases of the Stomach and Bowels of Cattle.

Circular No. 69, Bureau of Animal Industry. Texas Fever, or Southern Cattle Fever.

Circular No. 70, Bureau of Animal Industry. Tuberculosis of Cattle.

Circular No. 78, Bureau of Animal Industry. Glanders and Farcy.

Circular No. 22, Bureau of Forestry (third revision). Practical Assistance to Tree Planters.

Circular No. 16, revised, Bureau of Chemistry. Officials Charged with the Enforcement of Food Laws in the United States and Canada.

Circular No. 13, revised, Bureau of Soils. The Work of the Bureau of Soils.

Circular No. 46, Bureau of Entomology. Hydrocyanic-acid Gas Against Household Insects.

Circular No. 63, Office of Experiment Stations. The Work of the Office of Experiment Stations in Irrigation and Drainage.

FARMERS' BULLETINS.

NEW.

Miscellaneous Cotton Insects in Texas. By E. Dwight Sanderson, Special Agent, Bureau of Entomology, in cooperation with the Entomological Department, A. and M. College of Texas. Pp. 23, figs. 29. (Farmers' Bulletin No. 223.)

Description of the minor insect enemies of the cotton plant with suggestions for remedies and control.

Experiment Station Work—XXIX. Compiled from the publications of the Agricultural Experiment Stations. Pp. 32, figs. 6. (Farmers' Bulletin No. 225.)

CONTENTS: Injury by smoke and gases—Fertilizer mixtures—Flint varieties of corn—Buying and judging seed corn—Tobacco seed—Cowpea seed—Treating seed oats for smut—Potato culture—Tomato growing—Influence of feed on milk—Protecting cows from flies—Experiments with turkeys—Mineral matter for chickens—Brooder house—American Camembert cheese—Swelling in canned peas.

The Relation of Coyotes to Stock Raising in the West. By David E. Lantz, M. S., Assistant, Division of Biological Survey. Pp. 24, fig. 1. (Farmers' Bulletin No. 226.)

Statement of nature and extent of damage done by coyotes, of methods of destruction, and of effect of bounties.

REPRINTS.

- No. 22.—The Feeding of Farm Animals.
- No. 28.—Weeds; and How to Kill Them.
- No. 33.—Peach Growing for Market.
- No. 37.—Kafir Corn; Characteristics, Culture, and Uses.
- No. 41.—Fowls; Care and Feeding.
- No. 42.—Facts About Milk.
- No. 61.—Asparagus Culture.
- No. 68.—The Black Rot of the Cabbage.
- No. 81.—Corn Culture in the South.
- No. 84.—Experiment Station Work—VII.
- No. 85.—Fish as Food.
- No. 95.—Good Roads for Farmers.
- No. 97.—Experiment Station Work—X.
- No. 99.—Three Insect Enemies of Shade Trees.
- No. 109.—Farmers' Reading Courses.
- No. 111.—The Farmer's Interest in Good Seed.
- No. 116.—Irrigation in Fruit Growing.
- No. 126.—Practical Suggestions for Farm Buildings.
- No. 129.—Sweet Potatoes.
- No. 133.—Experiment Station Work—XVIII.
- No. 135.—Sorghum Sirup Manufacture.
- No. 137.—The Angora Goat.
- No. 141.—Poultry Raising on the Farm.
- No. 142.—Principles of Nutrition and Nutritive Value of Food.
- No. 151.—Dairying in the South.
- No. 154.—The Home Fruit Garden.
- No. 170.—Principles of Horse Feeding.
- No. 173.—A Primer of Forestry.
- No. 183.—Meat on the Farm.
- No. 185.—Beautifying the Home Grounds.
- No. 190.—Experiment Station Work—XXIV.
- No. 198.—Strawberries.
- No. 199.—Corn Growing.
- No. 200.—Turkeys.
- No. 205.—Pig Management.
- No. 207.—Game Laws for 1904.
- No. 210.—Experiment Station Work—XXVII.
- No. 213.—Raspberries.
- No. 214.—Beneficial Bacteria for Leguminous Crops.
- No. 216.—The Control of the Boll Weevil.
- No. 219.—Lessons from the Grain-rust Epidemic of 1904.
- No. 224.—Canadian Field Peas.

FROM YEARBOOK OF THE DEPARTMENT OF AGRICULTURE FOR 1904.

- The Relation of Plant Physiology to the Development of Agriculture. By Albert F. Woods, Pathologist and Physiologist, Bureau of Plant Industry. Pp. ii, 119-132. (Extract No. 336.)
- The Attitude of Lumbermen Toward Forest Fires. By E. A. Sterling, Forest Assistant, Bureau of Forestry. Pp. ii, 133-140, pls. 3. (Extract No. 337.)
- Relation of Weather Conditions to Growth and Development of Cotton. By J. B. Marbury, Section Director, United States Weather Bureau, Atlanta, Ga. Pp. v, 141-150, figs. 8. (Extract No. 338.)
- Inspection of Foreign Food Products. By H. W. Wiley, Chief of the Bureau of Chemistry. Pp. iii, 151-160. (Extract No. 339.)
- Opportunities in Agriculture. Part I—Growing Crops under Glass. By B. T. Galloway, Chief of the Bureau of Plant Industry. Part II—Fruit Growing. By M. B. Waite, Pathologist in Charge of Investigations of Diseases of Orchard Fruits, Bureau of Plant Industry. Part III—General Farming. By W. J. Spillman, Agrostologist, Bureau of Plant Industry. Pp. ii, 161-190, pls. 3. (Extract No. 340.)

- Present Status of the Cotton Boll Weevil in the United States. By W. D. Hunter, In Charge of Cotton Boll Weevil Investigations, Bureau of Entomology. Pp. ii, 191-204, pls. 2, fig. 1. (Extract No. 341.)
- The Respiration Calorimeter. By W. O. Atwater and F. G. Benedict, Nutrition Investigations, Office of Experiment Stations. Pp. iii, 205-220, pl. 1, figs. 2. (Extract No. 342.)
- The Relation of Birds to Fruit Growing in California. By F. E. L. Beal, Economic Ornithologist Biological Survey. Pp. ii, 241-254. (Extract No. 344.)
- Agricultural Development in Argentina. By Frank W. Bicknell, Special Agent and Agricultural Explorer. Pp. iii, 271-286, pls. 4. (Extract No. 346.)
- The Castor Oil Industry. By Charles M. Daugherty, of the Bureau of Statistics. Pp. iii, 287-298. (Extract No. 347.)
- Potato Culture Near Greeley, Colo. By J. Max Clark, Special Agent Irrigation and Drainage Investigations, Office of Experiment Stations. Pp. ii, 311-322, pl. 1, figs. 6. (Extract No. 349.)
- Practical Road Building in Madison County, Tenn. By Sam C. Lancaster, Chief Engineer Madison County Good Roads Commission. Pp. ii, 323-340, pls. 5, figs. 5. (Extract No. 350.)
- The Weather Bureau and the Homeseeker. By Edward L. Wells, Observer, Weather Bureau. Pp. ii, 353-358. (Extract No. 352.)
- Some Uses of the Grapevine and Its Fruit. By George C. Husmann, Viticulturist, in Charge of Viticultural Investigations, Bureau of Plant Industry. Pp. ii, 363-380, pls. 6, figs. 5. (Extract No. 354.)
- Insect Injuries to Forest Products. By A. D. Hopkins, in Charge of Forest Insect Investigations, Bureau of Entomology. Pp. ii, 381-398, figs. 14. (Extract No. 355.)
- Consumers' Fancies. By George K. Holmes, Chief of Division of Foreign Markets, Bureau of Statistics. Pp. ii, 417-434. (Extract No. 357.)
- The Determination of Timber Values. By Edward A. Braniff, Forest Assistant, Bureau of Forestry. Pp. iii, 453-459. (Extract No. 359.)
- The Annual Loss Occasioned by Destructive Insects in the United States. By C. L. Marlatt, Assistant Entomologist, in Charge of Experimental Field Work, Bureau of Entomology. Pp. ii, 461-474. (Extract No. 360.)
- Cotton Culture in Guatemala. By O. F. Cook, Botanist, In Charge of Investigations in Tropical Agriculture, Bureau of Plant Industry. Pp. ii, 475-488, pls. 3, fig. 1. (Extract No. 361.)
- Work of the Bureau of Plant Industry in Meeting the Ravages of the Boll Weevil and Some Diseases of Cotton. By B. T. Galloway, Chief of the Bureau of Plant Industry. Pp. iii, 497-508. (Extract No. 363.)
- Some Benefits the Farmer May Derive from Game Protection. By T. S. Palmer, Assistant in Charge of Game Preservation, Biological Survey. Pp. iii, 509-520. (Extract No. 364.)
- State Publications on Agriculture. By Charles H. Greathouse, Division of Publications. Pp. ii, 521-526. (Extract No. 365.)
- Plant Diseases in 1904. By W. A. Orton, Plant Pathologist, Bureau of Plant Industry. Pp. i, 581-586. (Extract No. 367.)
- The Principal Injurious Insects of 1904. By F. H. Chittenden, Sc. D., in Charge of Breeding Experiments, Bureau of Entomology. Pp. i, 600-605. (Extract No. 368.)
- Statistical Matter Relating to Principal Crops and Farm Animals, Freight Rates, Export, etc., of the United States, 1904. Pp. i, 625-742. (Extract No. 370.)
- Game Protection in 1904. By T. S. Palmer, Assistant, Biological Survey. Pp. i, 606-610. (Extract No. 371.)
- Progress of Forestry in 1904. By Quincy R. Craft, Editorial Clerk, Bureau of Forestry. Pp. i, 588-593, figs. 5. (Extract No. 372.)

FROM ANNUAL REPORT OF THE OFFICE OF EXPERIMENT STATIONS FOR THE YEAR ENDED JUNE 30, 1904.

- Report of Irrigation and Drainage Investigations, 1904. By Elwood Mead, Chief of Irrigation and Drainage Investigations. Pp. 52, pls. 5, figs. 5.
- Annual Report of the Alaska Agricultural Experiment Stations, 1904. By C. C. Georgeson, Agent in Charge. Pp. 101, pls. 7.
- Experiment Station Work in Corn Culture. By J. I. Schulte, Office of Experiment Stations. Pp. 55.
- Statistics of Land-grant Colleges and Agricultural Experiment Stations, 1904. Compiled by Miss M. T. Spethmann. Pp. 36.
- Some Important Foreign Veterinary Investigations. By E. V. Wilcox, Office of Experiment Stations. Pp. 31.
- Dietetics in Relation to Hospitals for the Insane. By W. O. Atwater, Chief of Nutrition Investigations. Pp. 23.
- Annual Report of Farmers' Institutes, 1904. By John Hamilton, Farmers' Institute Specialist, Office of Experiment Stations. Pp. 62.
- Annual Report of the Porto Rico Agricultural Experiment Station, 1904. By D. W. May, Special Agent in Charge. Pp. 46, pls. 5.

FROM ANNUAL REPORTS, DEPARTMENT OF AGRICULTURE, 1904.

- Report of the Office of Road Inquiries for 1904. Pp. 28.

REPRINT FROM BULLETIN NO. 52, BUREAU OF ENTOMOLOGY.

- Some Present-Day Features of Applied Entomology in America. By A. L. Quaintance. Pp. 22.

MISCELLANEOUS.

NEW.

- Experiment Station Work, Vol. II, No. 8. Compiled from the publications of the Agricultural Experiment Stations. Pp. i-iv, 28, fig. 1.
- Experiment Station Work, Vol. II, No. 9. Compiled from the publications of the Agricultural Experiment Stations. Pp. i-iv, 28, figs. 6.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau.]

Monthly Weather Review. Vol. XXXIII, No. 4. April, 1905. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 127-182, charts I-XIII. (W. B. No. 331.) Price 20 cents; \$2 per year.

Charts of the Weather Bureau—

Weather Crop Bulletin (series of 1905). Reporting temperature and rainfall with reference to their effect on crops. (Nos. 12, 13, 14, 15, for the month of June, 1905.)

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

NOT AVAILABLE FOR DISTRIBUTION.

Public Lands Commission. (Senate Document No. 188, Fifty-eighth Congress, second session.) Message from the President of the United States, submitting the preliminary report of the Public Lands Commission appointed October 22, 1903, to report upon the condition, operation, and effect of the present land laws, and to recommend such changes as are needed. (Senate Document No. 154, Fifty-eighth Congress, third session.) Message from the President of the United States, submitting the second partial report of the Public Lands Commission, appointed October 22, 1903, to report upon the condition, operation, and effect of the present land laws. Pp. 14.

Summary of Annual Report and Work and Expenditures of the Agricultural Experiment Stations for the Year ended June 30, 1904. Pp. 210. (Reprint from Annual Report of the Office of Experiment Stations for the year ended June 30, 1904.)

GEO. WM. HILL,
Editor and Chief.

Approved:

JAMES WILSON,
Secretary of Agriculture.

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p96M

This circular will be sent regularly to all who apply for it.

No. 517.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *July 31, 1905.*

MONTHLY LIST OF PUBLICATIONS.

[JULY, 1905.]

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ADVANCE SHEETS.

FROM FIELD OPERATIONS BUREAU OF SOILS.

- Soil Survey of the Charleston Area, South Carolina. By F. E. Bonsteel and E. P. Carr. Pp. 28, fig. 1, map 1. (Advance Sheets—Field Operations of the Bureau of Soils, 1904.)
- Soil Survey of the Bainbridge Area, Georgia. By Elmer O. Fippin and J. A. Drake. Pp. 25, fig. 1, map 1. (Advance Sheets—Field Operations of the Bureau of Soils, 1904.)
- Soil Survey of the San Antonio Area, Texas. By Thomas A. Caine and W. S. Lyman. Pp. 31, fig. 1, map 1. (Advance Sheets—Field Operations of the Bureau of Soils, 1904.)
- Soil Survey of Coshocton County, Ohio. By Thomas D. Rice and W. J. Geib. Pp. 20, fig. 1, map 1. (Advance Sheets—Field Operations of the Bureau of Soils, 1904.)

BULLETINS.

NEW.

- The Influence of Environment upon the Composition of the Sugar Beet, 1903. By Harvey W. Wiley, Chief of Bureau of Chemistry. In Collaboration with the Weather Bureau and the Agricultural Experiment Stations of California, Colorado, Indiana, Iowa, Kentucky, New York (Geneva and Ithaca), Oregon, Wisconsin, and Wyoming. Pp. 39, figs. 3. (Bulletin No. 95, Bureau of Chemistry.) Price 5 cents.
- The Mexican Boll Weevil: A Revision and Amplification of Bulletin 45, to Include the Most Important Observations Made in 1904. Prepared under the direction of the Entomologist by W. D. Hunter and W. E. Hinds. Pp. 181, pls. 23, figs. 8. (Bulletin No. 51, Bureau of Entomology.) Price 15 cents.
- Proceedings of the Seventeenth Annual Meeting of the Association of Economic Entomologists. Pp. 123, figs. 7. (Bulletin No. 52, Bureau of Entomology.) Price 10 cents.
- Proceedings of the Eighteenth Annual Convention of the Association of American Agricultural Colleges and Experiment Stations, Held at Des Moines, Iowa, November 1-3, 1904. Edited by A. C. True and W. H. Beal, for the Office of Experiment Stations, and H. C. White, for the Executive Committee of the Association. Pp. 138. (Bulletin No. 153, Office of Experiment Stations.) Price 10 cents.

Agricultural Instruction for Adults in the British Empire. By John Hamilton, Farmers' Institute Specialist. Pp. 96. (Bulletin No. 155, Office of Experiment Stations.) Price 5 cents.

The Yautias, or Taniers, of Porto Rico. By O. W. Barrett, Botanist and Entomologist, Porto Rico Agricultural Experiment Station. Prepared under the supervision of the Office of Experiment Stations, U. S. Department of Agriculture. Pp. 27, pls. 4. (Bulletin No. 6, Porto Rico Agricultural Experiment Station.) Price 5 cents.

History and description of the tanier, a tuber indigenous to tropical America, with directions for culture, harvesting, and preparation for use as food.

Las Yautias de Puerto Rico. Por O. W. Barrett, Botanico y Entomologo, Estacion de Experimentos Agricolas de Puerto Rico. Baja la direccion de la Oficina de Estaciones Experimentales Departamento de Agricultura, E. U. A. (Boletin No. 6, Estacion de Experimentos Agricolas de Puerto Rico.) Pag. 15, lam. 4. Precio 5 cents.

Experiment Station Record, Vol. XVI, No. 11, July, 1905. Pp. x, 1043-1144.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has decided to fix the price per volume (12 numbers) beginning with Volume X, at \$1, payable in advance.

The Red Gum. By Alfred K. Chittenden, M. F., Assistant Forest Inspector, Bureau of Forestry. With a Discussion of the Mechanical Properties of Red Gum Wood. By W. Kendrick Hatt, Ph. D., Civil Engineer, Bureau of Forestry. Pp. 56, pls. 6, figs. 7. (Bulletin No. 58, Bureau of Forestry.) Price 5 cents.

The Maple Sugar Industry. By William F. Fox, Collaborator, Bureau of Forestry, and William F. Hubbard, Sc. Pol. D., Forest Assistant, Bureau of Forestry. With a Discussion of the Adulterations of Maple Products. By H. W. Wiley, Chief of the Bureau of Chemistry. Pp. 56, pls. 8, figs. 10. (Bulletin No. 59, Bureau of Forestry.) Price 5 cents.

Terms Used in Forestry and Logging. Prepared in cooperation with the Society of American Foresters. Pp. 53. (Bulletin No. 61, Bureau of Forestry.) Price 5 cents.

The Avocado, A Salad Fruit of the Tropics. By G. N. Collins, Assistant Botanist in Investigations in Tropical Agriculture, Botanical Investigations and Experiments, Bureau of Plant Industry. Pp. 52, pls. 8. (Bulletin No. 77, Bureau of Plant Industry.) Price 5 cents.

The Variability of Wheat Varieties in Resistance to Toxic Salts. By L. L. Harter, Scientific Assistant, Laboratory of Plant Breeding. Pp. 48. (Bulletin No. 79, Bureau of Plant Industry.) Price 5 cents.

REPRINTS.

Bulletin No. 70, Bureau of Animal Industry. The Milk Supply of Twenty-nine Southern Cities. Price 5 cents.

Bulletin No. 71, Bureau of Animal Industry. The Camembert Type of Soft Cheese in the United States. Price 5 cents.

Bulletin No. 66, revised, Bureau of Chemistry. Fruits and Fruit Products: Chemical and Microscopical Examination. Price 20 cents.

Bulletin No. 71, Office of Experiment Stations. Dietary Studies of Negroes in Eastern Virginia. Price 5 cents.

Bulletin No. 150, Office of Experiment Stations. Dietary Studies at the Government Hospital for the Insane, Washington, D. C. Price 15 cents.

Bulletin No. 24, Part 1, Bureau of Forestry. A Primer of Forestry, Part 1—The Forest. Price 35 cents.

Bulletin No. 53, Bureau of Forestry. Chestnut in Southern Maryland. Price 10 cents.

Bulletin No. 43, Bureau of Plant Industry. Japanese Bamboos and their Introduction into America. Price 10 cents.

Bulletin No. 59, Bureau of Plant Industry. Pasture, Meadow, and Forage Crops in Nebraska. Price 10 cents.

Bulletin No. 74, Bureau of Plant Industry. The Prickly Pear and Other Cacti as Food for Stock. Price 5 cents.

CIRCULARS.

NEW.

Importation of Snakes into Hawaii. P. 1. (Circular No. 48, Biological Survey.)
 List of Abbreviations employed in Experiment Station Record for Titles of Periodicals. Prepared under the direction of E. W. Allen, Ph. D., Editor of Experiment Station Record. Pp. 74. (Circular No. 62, Office of Experiment Stations.)

Forest Preservation and National Prosperity. Portions of addresses delivered at the American Forest Congress, Washington, D. C., January 2 to 6, by President Roosevelt, Ambassador Jusserand, Secretary Wilson, and others. Pp. 31. (Circular No. 35, Forest Service.)

Monthly List of Publications, June, 1905. Pp. 6. (No. 516, Division of Publications.)

Crop Reporter. Vol. 7, No. 3. Published by the U. S. Department of Agriculture Under the Supervision of the Statistician. Pp. 17-30.

A three-column quarto publication devoted to agricultural statistics.

REPRINTS.

Circular No. 23 (second revision), Bureau of Animal Industry. Directions for the Use of Blackleg Vaccine.

Circular No. 21 (third revision), Bureau of Forestry. Practical Assistance to Farmers, Lumbermen, and Others in Handling Forest Lands.

FARMERS' BULLETINS.

REPRINTS.

No. 35.—Potato Culture. Pp. 24.

No. 50.—Sorghum as a Forage Crop. Pp. 24.

No. 51.—Standard Varieties of Chickens. Pp. 48.

No. 57.—Butter Making on the Farm. Pp. 20.

No. 59.—Bee Keeping. Pp. 48.

No. 112.—Bread and the Principles of Bread Making. Pp. 40.

No. 175.—Home Manufacture and Use of Unfermented Grape Juice. Pp. 16.

No. 194.—Alfalfa Seed. Pp. 14.

No. 208.—Varieties of Fruit recommended for Planting. Pp. 40.

No. 214.—Beneficial Bacteria for Leguminous Crops. Pp. 48.

No. 224.—Canadian Field Peas. Pp. 16.

SEPARATES.

FROM YEARBOOK OF THE DEPARTMENT OF AGRICULTURE, 1901.

The Hemp Industry in the United States. By Lyster H. Dewey, Assistant Botanist, Bureau of Plant Industry. Pp. ii, 541-554, pls. 4, figs. 2. (Extract No. 254.)

FROM YEARBOOK OF THE DEPARTMENT OF AGRICULTURE, 1903.

A Model Farm. By W. J. Spillman, Agrostologist, Bureau of Plant Industry. Pp. iii, 363-370, pls. 2. (Extract No. 323.)

Recent Progress in Timber Preservation. By Hermann von Schrenk, In Charge of Forest Products, Bureau of Forestry. Pp. iv, 427-440, pls. 3, figs. 3. (Extract No. 315.)

FROM YEARBOOK OF THE DEPARTMENT OF AGRICULTURE, 1904.

New Citrous Creations of the Department of Agriculture. By Herbert J. Webber and Walter T. Swingle, Vegetable Pathological and Physiological Investigations, Bureau of Plant Industry. Pp. iii, 221-240, pls. 13, figs. 2. (Extract No. 343.)

The Nut Weevils. By F. H. Chittenden, Sc. D., In Charge of Breeding Experiments, Bureau of Entomology. Pp. iii, 299-310, pls. 3, figs. 10. (Extract No. 348.)

Sugar-Beet Seed Breeding. By J. E. W. Tracy, Seed Expert, Bureau of Plant Industry. Pp. iii, 341-352, pls. 3. (Extract No. 351.)

Detection of Cotton-Seed Oil in Lard. By L. M. Tolman, Division of Foods, Bureau of Chemistry. Pp. iii, 359-362, pls. 4. (Extract No. 353.)

Promising New Fruits. By William A. Taylor, Pomologist in Charge of Field Investigations, Bureau of Plant Industry. Pp. ii, 399-416, pls. 8. (Extract No. 356.)

The Improvement of Tobacco Breeding and Selection. By Archibald D. Shamel, Scientific Assistant, Plant Breeding Laboratory, Vegetable Pathological Investigations, Bureau of Plant Industry. Pp. iii, 435-452, pls. 7, figs. 2. (Extract No. 358.)

Boys' Agricultural Clubs. By Dick J. Crosby, of the Office of Experiment Stations. Pp. v, 489-496, pls. 3. (Extract No. 362.)

A Directory for Farmers (corrected to April 1, 1905); with Weather Conditions, Crop Injuries, etc., for 1904. Pp. v, 539-625, pls. 4. (Extract No. 363.)

FROM BULLETIN 90, BUREAU OF CHEMISTRY, PROCEEDINGS OF ANNUAL CONVENTION OF ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS, 1904.

Summary of Experiments on the Relation of Soil Acidity to Fertility. By F. P. Veitch. Pp. ii, 183-187.

FROM ANNUAL REPORTS OF THE OFFICE OF EXPERIMENT STATIONS FOR THE YEAR ENDED JUNE 30, 1904.

Annual Report of the Hawaii Agricultural Experiment Station, 1904. By Jared G. Smith, Special Agent in Charge. Pp. iv, 361-382, pls. 2.
 Progress in Agricultural Education, 1904. By A. C. True, Director of Office of Experiment Stations. Pp. iv, 576-616, pls. 5, figs. 6.
 County Schools of Agriculture in Wisconsin. By K. C. Davis, Principal of Dunn County School of Agriculture, Menomonie, Wisconsin. Pp. iv, 677-686, pls. 4.
 Exhibits at the Louisiana Purchase Exposition. By Walter H. Evans and W. H. Beal, Office of Experiment Stations. Pp. iv, 687-714, pls. 8.

FROM BULLETIN NO. 153, OFFICE OF EXPERIMENT STATIONS, PROCEEDINGS OF ANNUAL CONVENTION OF ASSOCIATION OF AMERICAN AGRICULTURAL COLLEGES AND EXPERIMENT STATIONS, 1904.

Report of the Executive Committee. Pp. 15-18.
 Report of the Bibliographer. By A. C. True, Ph. D., Director of Office of Experiment Stations, U. S. Department of Agriculture. Pp. 20-25.
 Collective College and Station Exhibit at St. Louis. Pp. 25-27.
 Annual Address of the President of the Association: Some Problems in the Colleges of Agriculture and Mechanic Arts. By W. O. Thompson, D. D., LL. D., President of Ohio State University. Pp. 33-41.
 The Social Phase of Agricultural Education. By K. L. Butterfield, A. M., President of Rhode Island College of Agriculture and Mechanic Arts. Pp. 56-61.
 The Upbuilding of Agriculture. By W. Saunders, LL. D., Director of Canadian Experimental Farms. Pp. 69-75.
 How Far Should, or May, Land-Grant Colleges Engage in Teaching Elementary Subjects not Generally Recognized as Belonging to the College Curriculum? By W. O. Thompson, D. D., LL. D., President of Ohio State University. Pp. 79-91.
 Military Instruction. By M. H. Buckham, D. D., LL. D., President of University of Vermont and State Agricultural College. Pp. 91-101. Same. Pp. 91-95.
 What Degrees should be given for the completion of Undergraduate Courses in Land-Grant Colleges? By G. A. Harter, M. A., Ph. D., President of Delaware College. Pp. 101-106.
 What can and should be done to increase the interest in and appreciation for the Agricultural Side of Technical Education? By J. L. Snyder, M. A., Ph. D., President of Michigan State Agricultural College. Pp. 106-115.
 Plant Breeding. Pp. 119-124.
 Animal Breeding. By C. F. Curtiss, M. S. A., Dean of the Division of Agriculture, and Director and Agriculturist of the Experiment Station, Iowa State College of Agriculture and Mechanic Arts. Pp. 124-129.
 How Much Teaching, if any, is it desirable that a Station Worker should do? Pp. 130-136.

FROM BULLETIN NO. 154, OFFICE OF EXPERIMENT STATIONS, PROCEEDINGS OF THE NINTH ANNUAL MEETING OF AMERICAN ASSOCIATION OF FARMERS' INSTITUTE WORKERS, 1904.

List of Officials in Charge of Farmers' Institutes in the United States and Canada. Pp. 2.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau.]

Charts of the Weather Bureau—

Weather Crop Bulletin (series of 1905). Reporting temperature and rainfall with reference to their effect on crops. (Nos. 16, 17, 18, 19, 20, for the month of July, 1905.)
 Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

NOT AVAILABLE FOR DISTRIBUTION.

Experiment Station Record. Vol. XVI, No. 1. September, 1904. (Reprint.)
 Experiment Station Record. Vol. XVI, No. 4. December, 1904. (Reprint.)

GEO. WM. HILL,
Editor and Chief.

Approved:
 W. M. HAYS,
Acting Secretary of Agriculture.

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *August 31, 1905.*

MONTHLY LIST OF PUBLICATIONS.

[AUGUST, 1905.]

NOTE.—To obtain those publications, to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.

Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents. In all cases where officials desire to exchange publications application should be made to the Department of Agriculture.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

ADVANCE SHEETS.

FROM FIELD OPERATIONS, BUREAU OF SOILS.

Soil Survey of the Biloxi Area, Mississippi. By W. Edward Hearn and M. E. Carr. Pp. 26, fig. 1, map 1. (Advance Sheets—Field Operations of the Bureau of Soils.)

REPORTS.

NEW.

Annual Report of the Office of Experiment Stations for the year ended June 30, 1904. Pp. 724, pls. 42, figs. 11. Price 55 cents.

BULLETINS.

NEW.

Proceedings of the Twenty-first Annual Convention of the Association of Official Agricultural Chemists, held at St. Louis, Mo., September 26, 27, and 28, 1904. Edited by Harvey W. Wiley, Secretary of the Association. Pp. 254, figs. 2. (Bulletin No. 90, Bureau of Chemistry.) Price 15 cents.

Studies on Apples. I. Storage, Respiration, and Growth; II. Insoluble Carbohydrates or Marc; III. Microscopic and Macroscopic Examinations of Apple Starch. By W. D. Bigelow, H. C. Gore, and B. J. Howard, of the Bureau of Chemistry. Pp. 100, pls. 5, figs. 30. (Bulletin No. 94, Bureau of Chemistry.) Price 10 cents.

Experiments in the Culture of Sugar Cane and its Manufacture into Table Sirup. A report of the investigations conducted at Waycross and Cairo, Ga., in 1903 and 1904. By H. W. Wiley, Chief of the Bureau of Chemistry, with the collaboration of G. L. Spencer, W. B. Roddenbery, G. R. Youmans, and Arthur Given, of the Bureau of Chemistry. Pp. 78, pls. 5, figs. 6. (Bulletin No. 93, Bureau of Chemistry.) Price 10 cents.

Some Miscellaneous Results of the Work of the Bureau of Entomology—VIII. Prepared under the direction of the Entomologist. Pp. 99, pls. 4, figs. 20. (Bulletin No. 54, Bureau of Entomology.) Price 10 cents.

Accessions to the Department Library, April-June, 1905. Pp. 76. (Bulletin No. 56, Library.) Price 5 cents.

Agricultural Explorations in Algeria. By Thomas H. Kearney, Physiologist, Vegetable Pathological and Physiological Investigations, Bureau of Plant Industry, and Thomas H. Means, formerly of the Bureau of Soils. Seed and Plant Introduction and Distribution. Pp. 98, pls. 4. (Bulletin No. 80, Bureau of Plant Industry.) Price 10 cents.

Evolution of Cellular Structures. By O. F. Cook and Walter T. Swingle. Vegetable Pathological and Physiological Investigations. Pp. 26, pl. 1, figs. 2. (Bulletin No. 81, Bureau of Plant Industry.) Price 5 cents.

Grass Lands of the South Alaska Coast. By C. V. Piper, Agrostologist in Charge of Forage Plant Introduction. Grass and Forage Plant Investigations. Pp. 38, pls. 4. (Bulletin No. 82, Bureau of Plant Industry.) Price 10 cents.

The Vitality of Buried Seeds. By J. W. T. Duvel, Assistant in the Seed Laboratory. Pp. 22, pls. 3, fig. 1. (Bulletin No. 83, Bureau of Plant Industry.) Price 5 cents.

Studies on the Properties of an Unproductive Soil. By Burton Edward Livingston, J. C. Britton, and F. R. Reid. Pp. 39. (Bulletin No. 28, Bureau of Soils.) Price 5 cents.

REPRINTS.

Bulletin No. 71, Bureau of Chemistry. A Study of Cider Making in France, Germany, and England, with Comments and Comparisons on American Work. Price 20 cents.

Bulletin No. 84, Part I, Bureau of Chemistry. Influence of Food Preservatives and Artificial Colors on Digestion and Health. I. Boric Acid and Borax. Price 30 cents.

Bulletin No. 88, Bureau of Chemistry. The Chemical Composition of Apples and Cider. Price 5 cents.

Bulletin No. 42, Division of Entomology. Some Insects Attacking the Stems of growing Wheat, Rye, Barley, and Oats, with Methods of Prevention and Suppression. Price 5 cents.

Bulletin No. 53, Bureau of Entomology. Catalogue of the Exhibit of Economic Entomology at the Lewis and Clark Centennial Exposition. Portland, Oreg., 1905. Price 10 cents.

Bulletin No. 17, Division of Forestry. Check List of the Forest Trees of the United States, their Names and Ranges. Price 15 cents.

Bulletin No. 31, Bureau of Forestry. Notes on the Red Cedar. Price 10 cents.

CIRCULARS.

NEW.

Directory of State Officials and Organizations Concerned with the Protection of Birds and Game, 1905. Pp. 16. (Circular No. 50, Bureau of Biological Survey.)

Monthly List of Publications, July, 1905. Pp. 4. (No. 517, Division of Publications.)

Manurial Requirements of the Cecil Silt Loam of Lancaster County, South Carolina. By F. D. Gardner, in Charge of Soil Management, and F. E. Bonsteel, Assistant. Pp. 7. (Circular No. 16, Bureau of Soils.)

Crop Reporter. Vol. 7, No. 4. Published by the U. S. Department of Agriculture under the supervision of the Statistician. Pp. 31-38.

A three-column quarto publication devoted to agricultural statistics.

REPRINTS.

Circular No. 68. Bureau of Animal Industry. Diseases of the Stomach and Bowels of Cattle.

Circular No. 70, Bureau of Animal Industry. Tuberculosis of Cattle.

Circular No. 71, Bureau of Animal Industry. Anthrax in Cattle, Horses, and Men.

No. 247, Division of Publications. List of Bulletins and Circulars Issued by the U. S. Department of Agriculture and Available for Free Distribution in the United States. Corrected to July 1, 1905.

No. 517. Monthly List of Publications, July, 1905.

FARMERS' BULLETINS.

NEW.

Experiment Station Work—XXX. Compiled from the publications of the Agricultural Experiment Stations. Pp. 32, figs. 2. (Farmers' Bulletin No. 227.)

CONTENTS: Top-dressing grass land—Extension of corn growing—Peanuts for forage—Winterkilling of fruit trees—Cranberry culture—Lime-sulphur-salt wash—Destroying prairie dogs—Clean milk—Poultry houses.

REPRINTS.

- No. 24.—Hog Cholera and Swine Plague. Pp. 16.
- No. 28.—Weeds; And How to Kill Them. Pp. 31.
- No. 32.—Silos and Silage. Pp. 32.
- No. 33.—Peach Growing for Market. Pp. 24.
- No. 34.—Meats: Composition and Cooking. Pp. 32.
- No. 38.—Spraying for Fruit Diseases. Pp. 14.
- No. 41.—Fowls: Care and Feeding. Pp. 24.
- No. 44.—Commercial Fertilizers: Composition and Use. Pp. 24.
- No. 47.—Insects Affecting the Cotton Plant. Pp. 32.
- No. 51.—Standard Varieties of Chickens. Pp. 48.
- No. 62.—Marketing Farm Produce. Pp. 32.
- No. 63.—Care of Milk on the Farm. Pp. 40.
- No. 64.—Ducks and Geese: Standard Breeds and Management. Pp. 43.
- No. 71.—Some Essentials in Beef Production. Pp. 24.
- No. 73.—Experiment Station Work—IV. Pp. 32.
- No. 74.—Milk as Food. Pp. 40.
- No. 77.—The Liming of Soils. Pp. 24.
- No. 82.—The Culture of Tobacco. Pp. 24.
- No. 83.—Tobacco Soils. Pp. 24.
- No. 87.—Experiment Station Work—VIII. Pp. 32.
- No. 91.—Potato Diseases and Their Treatment. Pp. 16.
- No. 94.—The Vegetable Garden. Pp. 24.
- No. 96.—Raising Sheep for Mutton. Pp. 48.
- No. 100.—Hog Raising in the South. Pp. 40.
- No. 102.—Southern Forage Plants. Pp. 43.
- No. 106.—Breeds of Dairy Cattle. Pp. 48.
- No. 109.—Farmers' Reading Courses. Pp. 20.
- No. 113.—The Apple and How to Grow It. Pp. 32.
- No. 121.—Beans, Peas, and Other Legumes as Food. Pp. 40.
- No. 123.—Red Clover Seed: Information for Purchasers. Pp. 16.
- No. 128.—Eggs and Their Uses as Food. Pp. 38.
- No. 132.—The Principal Insect Enemies of Growing Wheat. Pp. 40.
- No. 136.—Earth Roads. Pp. 24.
- No. 141.—Poultry Raising on the Farm. Pp. 16.
- No. 144.—Experiment Station Work—XIX. Pp. 32.
- No. 147.—Winter Forage Crops for the South. Pp. 40.
- No. 148.—Celery Culture. Pp. 32.
- No. 149.—Experiment Station Work—XX. Pp. 32.
- No. 153.—Orchard Enemies in the Pacific Northwest. Pp. 40.
- No. 154.—The Home Fruit Garden: Preparation and Care. Pp. 16.
- No. 161.—Practical Suggestions for Fruit Growers. Pp. 30.
- No. 170.—Principles of Horse Feeding. Pp. 44.
- No. 173.—A Primer of Forestry. Pp. 48.
- No. 182.—Poultry as Food. Pp. 40.
- No. 190.—Experiment Station Work—XXIV. Pp. 32.
- No. 192.—Barnyard Manure. Pp. 32.
- No. 198.—Strawberries. Pp. 24.
- No. 199.—Corn Growing. Pp. 32.
- No. 200.—Turkeys: Standard Varieties and Management. Pp. 40.
- No. 201.—The Cream Separator on Western Farms. Pp. 24.
- No. 202.—Experiment Station Work—XXVI. Pp. 32.
- No. 203.—Canned Fruit, Preserves, and Jellies. Pp. 32.
- No. 204.—The Cultivation of Mushrooms. Pp. 24.
- No. 205.—Pig Management. Pp. 40.
- No. 214.—Beneficial Bacteria for Leguminous Crops. Pp. 48.
- No. 215.—Alfalfa Growing. Pp. 40.
- No. 222.—Experiment Station Work—XXVIII. Pp. 32.
- No. 223.—Miscellaneous Cotton Insects in Texas. Pp. 24.

SEPARATES.

FROM BULLETIN NO. 90, BUREAU OF CHEMISTRY.

Report on Soils. By Cyril G. Hopkins, Referee. Pp. 170-179, fig. 1.

FROM BULLETIN NO. 52, BUREAU OF ENTOMOLOGY.

Some Observations on the Cotton Boll Weevil. By E. Dwight Sanderson, Durham, N. H. Pp. 29-41, fig. 1.

FROM YEARBOOK OF THE DEPARTMENT OF AGRICULTURE, 1895.

Small-Fruit Culture for Market. By William A. Taylor, Assistant Pomologist. Pp. 283-294, pl. 1. (Extract No. 47.)

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau.]

Monthly Weather Review. Vol. XXXIV, No. 5. May, 1905. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 183-232, charts 1-10. (W. B. No. 332.) Price 20 cents; \$2 per year.

Charts of the Weather Bureau—

Weather Crop Bulletin (series of 1905), reporting temperature and rainfall with reference to their effect on crops. (Nos. 21, 22, 23, 24, for the month of August, 1905.) Price 2 cents.

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes. Price 2 cents.

GEO. WM. HILL,
Editor in Chief.

Approved:

JAMES WILSON,
Secretary of Agriculture.

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p96M

This circular will be sent regularly to all who apply for it.

No. 520.

United States Department of Agriculture,
DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *September 30, 1905.*

MONTHLY LIST OF PUBLICATIONS.

[SEPTEMBER, 1905.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

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The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

ADVANCE SHEETS.

FROM FIELD OPERATIONS, BUREAU OF SOILS, 1904.

Soil Survey of the Bakersfield Area, California. By Macy H. Lapham and Charles A. Jensen. Pp. 32, fig. 1, maps 3.

Soil Survey of the Kearney Area, Nebraska. By J. O. Martin and A. T. Sweet. Pp. 20, pl. 1, fig. 1, maps 2.

Soil Survey of the Boonville Area, Indiana. By A. W. Mangum and N. P. Neill. Pp. 27, fig. 1, map 1.

BULLETINS.

NEW.

7 Index-Catalogue of Medical and Veterinary Zoology. Part 12 [Authors K to Kohl]. By Ch. Wardell Stiles, Ph. D., Consulting Zoologist, Bureau of Animal Industry, etc., and Albert Hassall, M. R. C. V. S., Assistant in Zoology, Bureau of Animal Industry. Pp. 839-902. (Bulletin No. 39, Part 12, Bureau of Animal Industry.) Price 5 cents.

7 The Bacteria of Pasteurized and Unpasteurized Milk under Laboratory Conditions. By Lore A. Rogers, Expert in Dairy Bacteriology, Bureau of Animal Industry. Pp. 32. (Bulletin No. 73, Bureau of Animal Industry.) Price 5 cents.

Card The Score Card in Stock Breeding. By George M. Rommel, B. S. A., Animal Husbandman, Bureau of Animal Industry. Pp. 54, figs. 7. (Bulletin No. 76, Bureau of Animal Industry.) Price 5 cents.

7 Birds Known to Eat the Boll Weevil. By Vernon Bailey, Chief Field Naturalist, Biological Survey. Pp. 16. (Bulletin No. 22, Biological Survey.) Price 5 cents.

Card Influence of Environment on the Composition of the Sugar Beet, 1904, together with a Summary of the Five-Year Investigation. By Harvey W. Wiley, Chief of the Bureau of Chemistry, in collaboration with the Agricultural Experiment Stations of California, Colorado, Indiana, Iowa, Kentucky, Michigan, New York (Geneva and Ithaca), North Carolina, Utah, Virginia, and Wisconsin. Pp. 66, pl. 1, figs. 10. (Bulletin No. 96, Bureau of Chemistry.) Price 5 cents.

Investigaciones sobre el Tabaco en Puerto Rico durante 1903-4. Por J. Van Leenhoff, Jr., Especialista de Tabacos. Bajo la Direccion de la Oficina de Estaciones Experimentales, Departamento de Agricultura, E. U. A. Pag. 47, lám. 5, fig. 1. (Boletín No. 5, Estacion de Experimentos Agricolas de Puerto Rico.) Precio 5 cents.

Insect Enemies of Tobacco in Hawaii. By D. L. Van Dine, Entomologist, Hawaii Agricultural Experiment Station. Under the Supervision of the Office of Experiment Stations, U. S. Department of Agriculture. Pp. 16, figs. 6. (Bulletin No. 10, Hawaii Agricultural Experiment Station.) Price 5 cents.

Studies on the Digestibility and Nutritive Value of Bread and of Macaroni at the University of Minnesota, 1903-1905. By Harry Snyder, B. S., Professor of Chemistry, College of Agriculture, University of Minnesota, and Chemist, Agricultural Experiment Station. Pp. 80, pls. 4, fig. 1. (Bulletin No. 156, Office of Experiment Stations.) Price 5 cents.

School Gardens; a Report upon some Cooperative Work with the Normal Schools of Washington, with Notes on School-Garden Methods Followed in other American Cities. By B. T. Galloway, Chief of the Bureau of Plant Industry. Pp. 47, pls. 5. (Bulletin No. 160, Office of Experiment Stations.) Price 10 cents.

Experiment Station Record, Index Number. August, 1905. Vol. XVI, No. 12, 1904-1905. Pp. i-xvii, 1145-1255. (No single copies of Vol. XVI sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has decided to fix the price per volume (12 numbers) beginning with Volume X, at \$1, payable in advance.

The Storage and Germination of Wild Rice Seed. By J. W. T. Duvel, Assistant in the Seed Laboratory. Pp. 16, pls. 2. (Bulletin No. 90, Part I, Bureau of Plant Industry.) Price 5 cents.

Tobacco Investigations in Ohio. By George T. McNess and George B. Massey. Pp. 38. (Bulletin No. 29, Bureau of Soils.) Price 5 cents.

The Commercial Cotton Crop of 1903-4. By James L. Watkins. Pp. 101. (Bulletin No. 34, Bureau of Statistics.) Price 5 cents.

REPRINTS.

Bulletin No. 1, new series (third edition), Bureau of Entomology. The Honey Bee: A Manual of Instruction in Apiculture. Price 15 cents.

Bulletin No. 59, Bureau of Forestry. The Maple Sugar Industry. Price 5 cents.

Bulletin No. 56, Bureau of Plant Industry. Nomenclature of the Apple; A Catalogue of the Known Varieties Referred to in American Publications from 1804 to 1904. Price 30 cents.

CIRCULARS.

NEW.

Analysis of the Mexican Plant *Tecoma Mollis* H. B. K. By L. F. Kebler and A. Seidell, Drug Laboratory. Pp. 6. (Circular No. 24, Bureau of Chemistry.)

Methods of Analysis of Insecticides and Fungicides. By J. K. Haywood, Chief, Miscellaneous Laboratory. Pp. 11. (Circular No. 10 (Revised), Bureau of Chemistry.)

The Cottony Maple Scale (*Pulvinaria innumerabilis* Rathvon). By J. G. Sanders, Assistant Entomologist. Pp. 6, figs. 4. (Circular No. 64, Bureau of Entomology.)

Monthly List of Publications, August, 1905. Pp. 4. (No. 519, Division of Publications.)

Crop Reporter. Vol. 7, No. 5. Published by the U. S. Department of Agriculture under the supervision of the Associate Statistician. Pp. 39-46.

A three-column quarto publication devoted to agricultural statistics.

REPRINTS.

Circular No. 23 (third revision), Forest Service. Suggestions to Prospective Forest Students.

Circular No. 35, Forest Service. Forest Preservation and National Prosperity.

FARMERS' BULLETINS.

NEW.

Forest Planting and Farm Management. By George L. Clothier, Assistant Forest Inspector, Forest Service. Pp. 22, figs. 3. (Farmers' Bulletin No. 228.)

A statement of the need of forest planting, with suggestions for location and arrangement of farmsteads and recommendations of trees and methods of planting.

Game Laws for 1905. By T. S. Palmer, Henry Oldys, and R. W. Williams, Jr., Assistants, Biological Survey. Pp. 56, figs. 6. (Farmers' Bulletin No. 230.)

A summary of the provisions relating to seasons, shipments, sale, and licenses.

REPRINTS.

- No. 22.—The Feeding of Farm Animals. Pp. 40.
- No. 39.—Onion Culture. Pp. 32.
- No. 49.—Sheep Feeding. Pp. 24.
- No. 54.—Some Common Birds in Their Relation to Agriculture. Pp. 48.
- No. 55.—The Dairy Herd. Pp. 30.
- No. 56.—Experiment Station Work—I. Pp. 32.
- No. 61.—Asparagus Culture. Pp. 40.
- No. 66.—Meadows and Pastures. Pp. 30.
- No. 78.—Experiment Station Work—V. Pp. 32.
- No. 79.—Experiment Station Work—VI. Pp. 30.
- No. 95.—Good Roads for Farmers. Pp. 48.
- No. 107.—Experiment Station Work—XIII. Pp. 32.
- No. 111.—The Farmer's Interest in Good Seed. Pp. 24.
- No. 119.—Experiment Station Work—XV. Pp. 32.
- No. 125.—Protection of Food Products from Injurious Temperatures. Pp. 28.
- No. 137.—The Angora Goat. Pp. 48.
- No. 169.—Experiment Station Work—XXII. Pp. 32.
- No. 179.—Horseshoeing. Pp. 30.
- No. 181.—Pruning. Pp. 40.
- No. 183.—Meat on the Farm. Pp. 38.
- No. 184.—Marketing Live Stock. Pp. 40.
- No. 187.—Drainage of Farm Lands. Pp. 40.
- No. 188.—Weeds Used in Medicine. Pp. 46.
- No. 198.—Strawberries. Pp. 24.
- No. 203.—Canned Fruit, Preserves, and Jellies. Pp. 32.
- No. 209.—Controlling the Boll Weevil. Pp. 32.
- No. 210.—Experiment Station Work—XXVII. Pp. 32.
- No. 211.—The Use of Paris Green in Controlling the Cotton Boll Weevil. Pp. 21.
- No. 212.—The Cotton Bollworm. Pp. 32.
- No. 213.—Raspberries. Pp. 38.
- No. 220.—Tomatoes. Pp. 32.
- No. 225.—Experiment Station Work—XXIX. Pp. 32. *

SEPARATES.

FROM YEARBOOK OF THE DEPARTMENT OF AGRICULTURE, 1903.

Building Sand-Clay Roads in Southern States. By W. L. Spoon, Special Agent, Office of Public Road Inquiries. Pp. i-iii, 259-266, pls. 2, figs. 3. (Extract No. 332.)

The Economic Value of the Bobwhite. By Sylvester D. Judd, Ph. D., Assistant Ornithologist, Biological Survey. Pp. i-iii, 193-204, pl. 1. (Extract No. 309.)

FROM YEARBOOK OF THE DEPARTMENT OF AGRICULTURE, 1904.

Animal Breeding and Feeding Investigations by the Bureau of Animal Industry. By D. E. Salmon, D. V. M., Chief of the Bureau of Animal Industry. Pp. 527-538. (Extract No. 366.)

FROM BULLETIN No. 54, BUREAU OF ENTOMOLOGY, 1905.

Cold Storage for Cowpeas. By J. W. T. Duvel, Seed Laboratory, Bureau of Plant Industry. Pp. 49-54, pls. 2, fig. 1.

FROM SECOND EDITION BULLETIN No. 56, BUREAU OF PLANT INDUSTRY.

Additions and Corrections Affecting Bulletin No. 56 of the Bureau of Plant Industry, U. S. Department of Agriculture, entitled "Nomenclature of the Apple." Pp. 385-395.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau.]

- ✓ Improved Methods for Finding Altitude and Azimuth, Geographical Position, and the Variation of the Compass. Pp. 8, figs. 7. (W. B. No. 336.)
- ✓ Temperature and Relative Humidity Data. By William B. Stockman, Chief Division of Meteorological Records. Pp. 29, maps 2. (Bulletin O, Weather Bureau.)
- ✓ Station Regulations. Pp. 222.

Monthly Weather Review. Vol. XXXIII, No. 6. June, 1905. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 233-285, charts 9. Price 20 cents. \$2 per year.

Charts of the Weather Bureau—

✓ Meteorological Chart of the Great Lakes. No. 1, 1905. By Alfred J. Henry and Norman B. Conger. Pp. 17. (W. B. No. 333.)

✓ Weather-Crop Bulletin (Series of 1905), reporting temperature and rainfall with reference to their effect on crops. (Nos. 25, 26, 27, 28, for the month of September, 1905.)

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

NOT AVAILABLE FOR DISTRIBUTION.

- Experiment Station Work. Vol. II, No. 10. Compiled from the Publications of the Agricultural Experiment Stations. Pp. iv., 253-280.
- Experiment Station Record, November, 1889. Vol. I, No. 2.
- Experiment Station Record, October, 1890. Vol. II, No. 3.
- Experiment Station Record, December, 1890. Vol. II, No. 5.
- Experiment Station Record, January, 1891. Vol. II, No. 6.
- Experiment Station Record, August, 1891. Vol. III, No. 1.
- Experiment Station Record. Vol. VI, No. 1.
- Experiment Station Record. Vol. VII, No. 5.
- Experiment Station Record. Vol. X, No. 4.
- Experiment Station Record, Index Number, August, 1904. Vol. XV, No. 12.
- Experiment Station Record, October, 1904. Vol. XVI, No. 2.
- Experiment Station Record, November, 1904. Vol. XVI, No. 3.
- Preliminary Report on the Unification of Terms for Reporting Analytical Results. Pp. 16. (Bureau of Chemistry.)

Approved:

JAMES WILSON,
Secretary of Agriculture.

GEO. WM. HILL,
Editor in Chief.

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *October 31, 1905.*

MONTHLY LIST OF PUBLICATIONS.

[OCTOBER, 1905.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.

Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents. In all cases where officials desire to exchange publications application should be made to the Department of Agriculture.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

ADVANCE SHEETS.

FROM FIELD OPERATIONS, BUREAU OF SOILS, 1904.

- Soil Survey of the O'Fallon Area, Missouri-Illinois. By Elmer O. Fippin and J. A. Drake. Pp. 31, fig. 1, map 1.
- Soil Survey of Macon County, Alabama. By Henry J. Wilder and Hugh H. Bennett. Pp. 29, fig. 1, map 1.
- Soil Survey of the Jackson Area, Mississippi. By J. O. Martin and O. L. Ayrs. Pp. 14, fig. 1, map 1.
- Soil Survey of Dodge County, Georgia. By Charles W. Ely and A. M. Griffen. Pp. 20, fig. 1, map 1.
- Soil Survey of the Owosso Area, Michigan. By A. W. Mangum and Charles J. Mann. Pp. 27, fig. 1, map 1.
- Soil Survey of Scott County, Indiana. By A. W. Mangum and N. P. Neill. Pp. 24, fig. 1, map 1.
- Soil Survey of the Austin Area, Texas. By A. W. Mangum and H. L. Belden. Pp. 30, fig. 1, map 1.
- Soil Survey of the Vergennes Area, Vermont-New York. By Henry J. Wilder and H. L. Belden. Pp. 26, fig. 1, map 1.
- Soil Survey of Rhode Island. By F. E. Bonsteel and E. P. Carr. Pp. 30, maps 2.
- Soil Survey of the Saginaw Area, Michigan. By W. E. McLendon and M. Earl Carr. Pp. 40, fig. 1, map 1.
- Soil Survey of the Cando Area, North Dakota. By Elmer O. Fippin and James L. Burgess. Pp. 29, fig. 1, map 1.
- Soil Survey of Tama County, Iowa. By Charles W. Ely, George N. Coffey, and A. M. Griffen. Pp. 29, fig. 1, map 1.

REPORTS.

REPRINTS.

- Report of the Forester for 1903.
- Report of the Forester for 1904.

BULLETINS.

NEW.

- Index-Catalogue of Medical and Veterinary Zoology, Part 13 (Authors: Kohl to Kynsey). By Ch. Wardell Stiles, Consulting Zoologist of Bureau of Animal Industry, Zoologist of U. S. Public Health and Marine-Hospital Service, and Albert Hassall, Assistant in Zoology, Bureau of Animal Industry. Pp. 903-950. (Bulletin No. 39, Part 13, Bureau of Animal Industry.) Price 5 cents.

Energy values of Red Clover Hay and Maize Meal. Investigations with the Respiration Calorimeter in Cooperation with the Pennsylvania State College Agricultural Experiment Station. By Henry Prentiss Armsby and J. August Fries. Pp. 64, diagrams 3. (Bulletin No. 74, Bureau of Animal Industry.) Price 5 cents.

The Bobwhite and Other Quails of the United States in their Economic Relations. By Sylvester D. Judd, Assistant, Biological Survey. Pp. 66, pls. 11, figs. 10. (Bulletin No. 21, Bureau of Biological Survey.) Price 5 cents.

North American Fauna No. 25. Biological Survey of Texas: Life Zones, with Characteristic Species of Mammals, Birds, Reptiles, and Plants; Reptiles, with Notes on Distribution; Mammals, with Notes on Distribution, Habits, and Economic Importance. By Vernon Bailey, Chief Field Naturalist. Prepared under the direction of Dr. C. Hart Merriam, Chief of Biological Survey. Pp. 222, pls. 16, figs. 24. (Biological Survey.) Price 40 cents.

Studies on Peaches. I. Compiled Analyses of Peaches. II. Changes in Chemical Composition of the Peach During Growth and Ripening. III. Effect of Storage on the Composition of Peaches. By W. D. Bigelow, Chief, Division of Foods, and H. C. Gore, Assistant Chemist. Pp. 32. (Bulletin No. 97, Bureau of Chemistry.) Price 5 cents.

The Social Organization and Breeding Habits of the Cotton-Protecting Kelep of Guatemala. By O. F. Cook, Bionomist in Charge of Investigations in Agricultural Economy of Tropical and Subtropical Plants. Pp. 55. (Technical Series, No. 10, Bureau of Entomology.) Price 5 cents.

A Digest of Japanese Investigations on the Nutrition of Man. By Kintaro Oshima, Director of the Hokkaido Agricultural Experiment Station, Sapporo, Japan. Pp. 224. (Bulletin No. 159, Office of Experiment Stations.) Price 15 cents.

Experiment Station Record, September, 1905. Vol. XVII, No. 1. Pp. ix, 1-104. (Office of Experiment Stations.)

Experiment Station Record, October, 1905. Vol. XVII, No. 2. Pp. ix, 105-208. (Office of Experiment Stations.) (No single copies of Vol. XVII sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has decided to fix the price per volume (12 numbers) beginning with Volume X, at \$1, payable in advance.

Improving the Quality of Wheat. By T. L. Lyon, Agriculturist and Associate Director of the Agricultural Experiment Station of Nebraska, and Collaborator of the Bureau of Plant Industry, Vegetable Pathological and Physiological Investigations, in Cooperation with the Agricultural Experiment Station of Nebraska. Pp. 120. (Bulletin No. 78, Bureau of Plant Industry.) Price 10 cents.

Trade with Noncontiguous Possessions in Farm and Forest Products, 1902-1904. Compiled by the Division of Foreign Markets. Pp. 49. (Bulletin No. 37, Bureau of Statistics.) Price 10 cents.

Crop Export Movement and Port Facilities on the Atlantic and Gulf Coasts. By Frank Andrews, Expert in Transportation Statistics, Division of Foreign Markets. Pp. 80. (Bulletin No. 38, Bureau of Statistics.) Price 5 cents.

REPRINTS.

Bulletin No. 52, Part 1, Bureau of Animal Industry. Experiments Concerning Tuberculosis, under the Supervision of the Biochemic Division. Price 10 cents.

Bulletin No. 56, Bureau of Animal Industry. Digestion Experiments with Poultry. Price 20 cents.

Bulletin No. 64, Bureau of Chemistry. The Influence of Environment upon the Composition of the Sugar Beet, 1900. Price 5 cents.

Bulletin No. 74, Bureau of Chemistry. The Influence of Soil and Climate upon the Composition of the Sugar Beet, 1901. Price 5 cents.

Bulletin No. 78, Bureau of Chemistry. The Influence of Environment upon the Composition of the Sugar Beet, 1902, Including a Study of Irrigated Sections. Price 5 cents.

Bulletin No. 92, Bureau of Chemistry. The Effect of Water on Rock Powders. Price 15 cents.

- Bulletin No. 93, Bureau of Chemistry. Experiments in the Culture of Sugar Cane and its Manufacture into Table Sirup. Price 10 cents.
- Bulletin No. 95, Bureau of Chemistry. The Influence of Environment upon the Composition of the Sugar Beet, 1903. Price 10 cents.
- Bulletin No. 96, Bureau of Chemistry. Influence of Environment on the Composition of the Sugar Beet, 1904, together with a Summary of the Five-year Investigation. Price 5 cents.
- Bulletin No. 25, new series, Division of Entomology. Notes on the Mosquitoes of the United States, Giving some Account of their Structure and Biology, with Remarks on Remedies. Price 5 cents.
- Bulletin No. 50, Bureau of Entomology. The Cotton Bollworm. Price 25 cents.
- Bulletin No. 113, Office of Experiment Stations. Irrigation of Rice in the United States. Price 30 cents.
- Bulletin No. 145, Office of Experiment Stations. Preparing Land for Irrigation and Methods of Applying Water. Price 15 cents.
- Bulletin No. 57, Bureau of Forestry. Federal and State Laws. Price 15 cents.
- Bulletin No. 66, Bureau of Plant Industry. Seeds and Plants Imported during the Period from September, 1900, to December, 1903. Price 15 cents.
- Bulletin No. 26, Bureau of Soils. Investigations in Soil Management. Price 15 cents.

CIRCULARS.

NEW.

- The Cotton Red Spider (*Tetranychus gloveri* Bks.). By E. S. G. Titus, Special Field Agent. Pp. 5, figs. 2. (Circular No. 65, Bureau of Entomology.)
- The Joint-Worm (*Isosoma tritici*). By F. M. Webster, in Charge of Cereal and Forage Crop Insect Investigations. Pp. 5, figs. 5. (Circular No. 66, Bureau of Entomology.)
- Monthly List of Publications, September, 1905. Pp. 4. (No. 520, Division of Publications.)
- A Study of Rock Decomposition under the Action of Water. By Allerton S. Cushman. Pp. 10, figs. 3. (Circular No. 38, Office of Public Roads.)
- Manurial Requirements of the Portsmouth Sandy Loam of the Darlington Area, South Carolina. By F. D. Gardner, in Charge of Soil Management, and F. E. Bonsteel, Assistant. Pp. 10. (Circular No. 17, Bureau of Soils.)
- Crop Reporter, Vol. 7, No. 6. Published by the United States Department of Agriculture under the supervision of the Associate Statistician. Pp. 47-54.
- A three-column quarto publication devoted to Agricultural statistics.

REPRINTS.

- Circular No. 67, Bureau of Animal Industry. Abortion, or Slinking the Calf.
- Circular No. 69, Bureau of Animal Industry. Texas Fever, or Southern Cattle Fever.
- Circular No. 19 (Revised), Bureau of Chemistry. Methods for the Detection of Renovated Butter.
- Circular No. 51 (Revised), Office of Experiment Stations. List of State Directors of Farmers' Institutes and Farmers' Institute Lecturers of the United States.
- Circular No. 62, Office of Experiment Stations. List of Abbreviations Employed in Experiment Station Record for Titles of Periodicals.
- Circular No. 35, Forest Service. Forest Preservation and National Prosperity.
- Circular No. 13 (Revised), Bureau of Soils. The Work of the Bureau of Soils.

FARMERS' BULLETINS.

- Experiment Station Work—XXXI. Compiled from the publications of the agricultural experiment stations. Prepared in the Office of Experiment Stations. Pp. 32, figs. 5. (Farmers' Bulletin No. 233.)

CONTENTS: Root system of plants—Fertilizers for asparagus—Mushroom culture—Onions in the Southwest—Ether forcing of rhubarb—Noodles—Condimental feeds—Beef vs. dairy type for beef production—Feeding skim milk calves—Animal food for ducks—Milk from diseased cows—Cider vinegar.

REPRINTS.

- No. 29.—Souring of Milk. Pp. 22.
 No. 48.—The Manuring of Cotton. Pp. 16.
 No. 65.—Experiment Station Work—II. Pp. 32.
 No. 81.—Corn Culture in the South. Pp. 24.
 No. 85.—Fish as Food. Pp. 32.
 No. 86.—Thirty Poisonous Plants of the United States. Pp. 32.
 No. 98.—Suggestions to Southern Farmers. Pp. 48.
 No. 101.—Millets. Pp. 32.
 No. 113.—The Apple and How to Grow It. Pp. 32.
 No. 129.—Sweet Potatoes. Pp. 40.
 No. 150.—Clearing New Land. Pp. 24.
 No. 157.—The Propagation of Plants. Pp. 24.
 No. 162.—Experiment Station Work—XXI. Pp. 32.
 No. 164.—Rape as a Forage Crop. Pp. 16.
 No. 177.—Squab Raising. Pp. 32.
 No. 185.—Beautifying the Home Grounds. Pp. 24.
 No. 205.—Pig Management. Pp. 40.
 No. 206.—Milk Fever. Pp. 16.
 No. 210.—Experiment Station Work—XXVII. Pp. 32.
 No. 217.—Essential Steps in an Early Crop of Cotton. Pp. 16.
 No. 220.—Tomatoes. Pp. 32.
 No. 222.—Experiment Station Work—XXVIII. Pp. 32.

SEPARATES.

FROM YEARBOOK OF THE DEPARTMENT OF AGRICULTURE, 1902.

Use of Mineral Oil in Road Improvement. By James W. Abbott, Special Agent, Rocky Mountain and Coast Division, Office of Public Road Inquiries. Pp. 439-454, pls. 3, figs. 4. (Extract No. 296.)

FROM BULLETIN NO. 120, OFFICE OF EXPERIMENT STATIONS.

Constitution and By-Laws of the American Association of Farmers' Institute Workers, with Amendments Proposed at the Seventh Annual Meeting, Washington, D. C., 1902. Pp. 8-10. (O. E. S. Doc. 538.)

FROM BULLETIN NO. 138, OFFICE OF EXPERIMENT STATIONS.

Constitution and By-Laws of the American Association of Farmers' Institute Workers, as Amended at the Eighth Annual Meeting, Toronto, Canada, 1903. Pp. 9-10. (O. E. S. Doc. 635.)

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau.]

Report of the Chief of the Weather Bureau, 1903-1904. Pp. xxxix, 381.

Charts of the Weather Bureau—

Weather-Crop Bulletin (Series of 1905), reporting temperature and rainfall with reference to their effect on crops. (No. 29, for the month of October, 1905.)

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

Cotton Region Weather-Crop Bulletin. Nos. 1 to 3. Published by authority of the Secretary of Agriculture. P. 1. (Weather Bureau.)

PUBLICATIONS NOT AVAILABLE FOR DISTRIBUTION.

Experiment Station Record, February, 1891. Vol. 2, No. 7.

Experiment Station Record, June, 1891. Vol. 2, No. 11.

Experiment Station Record, September, 1891. Vol. III, No. 2.

Experiment Station Record, March, 1893. Vol. IV, No. 8.

Experiment Station Record, June, 1893. Vol. IV, No. 11.

Approved:

JAMES WILSON,

Secretary of Agriculture.

GEO. WM. HILL,
Editor in Chief.

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No. 527.

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., November 29, 1905.

MONTHLY LIST OF PUBLICATIONS.

[NOVEMBER, 1905.]

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ADVANCE SHEETS.

FROM FIELD OPERATIONS, BUREAU OF SOILS, 1904.

Soil Survey of Marshall County, Indiana. By Frank Bennett and Charles W. Ely. Pp. 22, fig. 1, map 1.

Soil Survey of the Alma Area, Michigan. By W. Edward Hearn and A. M. Griffen. Pp. 30, fig. 1, map 1.

Soil Survey of Webster County, Missouri. By J. A. Drake and A. T. Strahorn. Pp. 18, fig. 1, map 1.

Soil Survey of the Superior Area, Wisconsin-Minnesota. By Thomas A. Caine and W. S. Lyman. Pp. 22, fig. 1, map 1.

Soil Survey of Adams County, Pennsylvania. By Henry J. Wilder and H. L. Belden. Pp. 36, fig. 1, map 1.

REPORT.

NEW.

Report of the Secretary of Agriculture, 1905. Preliminary. Pp. 132.

BULLETINS.

NEW.

Cattle, Sheep, and Hog Feeding in Europe. By Willard John Kennedy, Professor of Animal Husbandry, Iowa State College of Agriculture, and Vice-Director, Iowa Experiment Station. Pp. 98. (Bulletin No. 77, Bureau of Animal Industry.) Price 5 cents.

The Synonymy of *Tænia*, *T. crassicollis*, *T. marginata*, *T. serrata*, *T. coenurus*, *T. serialis*, and *Echinococcus*. By Ch. Wardell Stiles, Consulting Zoologist of Bureau of Animal Industry, and Earle C. Stevenson, Assistant, Division of Zoology, Bureau of Animal Industry. Pp. 14. (Bulletin No. 80, Bureau of Animal Industry.) Price 5 cents.

The Horned Larks and their Relation to Agriculture. By W. L. McAtee, Assistant, Biological Survey. Pp. 37, pls. 2, figs. 13. (Bulletin No. 23, Biological Survey.) Price 5 cents.

Legislation Relating to Farmers' Institutes in the United States. Pp. 35. (Bulletin No. 135, revised, Office of Experiment Stations.) Price 5 cents.

Water Rights on Interstate Streams: The Platte River and Tributaries. Results of Investigation. By R. P. Teele, Editorial Assistant. Water Rights within the States. By Elwood Mead, Chief of Irrigation and Drainage Investigations. Pp. 118, pls. 4, figs. 3. (Bulletin No. 157, Office of Experiment Stations.) Price 10 cents.

Grazing on the Public Lands. Extracts from the Report of the Public Lands Commission. (Senate Document No. 189, Fifty-eighth Congress, third session.) Pp. 67, map 1, diagram 1. (Bulletin No. 62, Forest Service.) Price — cents.

Loblolly Pine in Eastern Texas, with Special Reference to the Production of Cross-ties. By Raphael Zon, Forest Assistant, Forest Service. Pp. 53, pls. 4, figs. 2. (Bulletin No. 64, Forest Service.) Price 5 cents.

Experiment Station Record, November, 1905. Vol. XVII, No. 3. Pp. viii, 209-312. (Office of Experiment Stations.) (No single copies of Vol. XVII sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has decided to fix the price per volume (12 numbers), beginning with Volume X, at \$1, payable in advance.

Accessions to the Department Library. July-September, 1905. Pp. 47. (Bulletin No. 57, Library.) Price 5 cents.

The Seeds of the Bluegrasses. I. The Germination, Growing, Handling, and Adulteration of Bluegrass Seeds. By Edgar Brown, Botanist in Charge of Seed Laboratory. II. Descriptions of the Seeds of the Commercial Bluegrasses and their Impurities. By F. H. Hillman, Assistant Botanist, Seed Laboratory. Pp. 38, figs. 35. (Bulletin No. 84, Bureau of Plant Industry.) Price 5 cents.

The Principles of Mushroom Growing and Mushroom Spawn Making. By B. M. Duggar, Professor of Botany in the University of Missouri, and Collaborator of the Bureau of Plant Industry. Vegetable Pathological and Physiological Investigations. Pp. 60, pls. 7. (Bulletin No. 85, Bureau of Plant Industry.) Price 10 cents.

Agriculture without Irrigation in the Sahara Desert. By Thomas H. Kearney, Physiologist. Vegetable Pathological and Physiological Investigations. Pp. 30, pls. 5, fig. 1. (Bulletin No. 86, Bureau of Plant Industry.) Price 5 cents.

The Crown-gall and Hairy-root Diseases of the Apple Tree. By George G. Hedgcock, Assistant in Pathology, Mississippi Valley Laboratory. Vegetable Pathological and Physiological Investigations. Pp. 7, pls. 3. (Bulletin No. 90, Part II, Bureau of Plant Industry.) Price 5 cents.

Imports of Farm and Forest Products, 1902-1904, by Countries from which Consigned. Compiled by the Division of Foreign Markets. Pp. 82. (Bulletin No. 35, Bureau of Statistics.) Price 5 cents.

Exports of Farm and Forest Products, 1902-1904, by Countries to which Consigned. Compiled by the Division of Foreign Markets. Pp. 108. (Bulletin No. 36, Bureau of Statistics.) Price 10 cents.

REPRINTS.

Bulletin No. 52, Part II, Bureau of Animal Industry. Experiments concerning Tuberculosis, under the Supervision of the Biochemic Division. Price 65 cents.

Bulletin No. 59, Bureau of Forestry. The Maple Sugar Industry. Price 5 cents.

Bulletin No. 72, Bureau of Plant Industry. Miscellaneous Papers. Price 5 cents.

Bulletin No. 23, Bureau of Soils. Investigations in Soil Fertility. Price 5 cents.

CIRCULARS.

NEW.

Adulteration of Alfalfa and Red Clover Seed. Pp. 2. (Circular No. 14, Office of the Secretary.)

Dairy Methods in Great Britain, Ireland, Denmark, Holland, Channel Islands, France, Austria-Hungary, Germany, and Switzerland. By Willard John Kennedy, Professor of Animal Husbandry, Iowa State College of Agriculture, and Vice-Director, Iowa Experiment Station. (Reprint from Bulletin No. 77, Bureau of Animal Industry.) Pp. 40-70. (Circular No. 76, Bureau of Animal Industry.)

The Sheep Industry of England, Scotland, Ireland, and France. By Willard John Kennedy, Professor of Animal Husbandry, Iowa State College of Agriculture, and Vice-Director, Iowa Experiment Station. (Reprint from Bulletin No. 77, Bureau of Animal Industry.) Pp. 71-87. (Circular No. 81, Bureau of Animal Industry.)

List of Station Publications Received by the Office of Experiment Stations during September and October, 1905. Pp. 7. (Doc. 847, Office of Experiment Stations.)

Monthly List of Publications, October, 1905. Pp. 4. (No. 522, Division of Publications.)

Crop Reporter, Vol. 7, No. 7. Published by the U. S. Department of Agriculture under the supervision of the Assistant Secretary. Pp. 55-62.

A three-column quarto publication devoted to agricultural statistics.

REPRINTS.

Circular No. 51, Bureau of Animal Industry. Mycotic Stomatitis of Cattle.

Circular No. 56, Bureau of Entomology. The Most Important Step in the Cultural System of Controlling the Boll Weevil.

Circular No. 35, Forest Service. Forest Preservation and National Prosperity.

FARMERS' BULLETINS

NEW.

The Production of Good Seed Corn. By C. P. Hartley, Assistant in Physiology, Laboratory of Plant Breeding, Bureau of Plant Industry. With an Appendix on Selection and Care of Seed Corn. By Herbert J. Webber, Physiologist in Charge of Laboratory of Plant Breeding, Bureau of Plant Industry. Pp. 24, figs. 10. (Farmers' Bulletin No. 229.)

This bulletin is issued in response to a general demand for well-bred seed corn, and treats of the breeding of seed suitable to different localities, with suggestions for harvesting, selection, and care of home-grown seed.

Spraying for Cucumber and Melon Diseases. By W. A. Orton, Pathologist, Vegetable Pathological and Physiological Investigations, Bureau of Plant Industry. Pp. 24, figs. 8. (Farmers' Bulletin No. 231.)

A brief description of the common diseases of these cucurbits, with a statement of the practical requirements for their control.

Okra: Its Culture and Uses. By W. R. Beattie, Assistant Horticulturist, Bureau of Plant Industry. Pp. 16, figs. 8. (Farmers' Bulletin No. 232.)

Description and history of okra or gumbo (*Hibiscus esculentus*), its cultivation, gathering, and marketing, with directions for its preparation for table use. The important varieties are described and illustrated.

The Guinea Fowl and its Use as Food. By C. F. Langworthy, Office of Experiment Stations. Pp. 24, figs. 3. (Farmers' Bulletin No. 234.)

The history, description, habits, and value of the guinea fowl are given, together with directions for its care and management and for the preparation and use of the flesh as food. The composition and nutritive value of the eggs are also stated.

Incubation and Incubators. By Richard H. Wood. Pp. 32, figs. 11. (Farmers' Bulletin No. 236.)

This bulletin deals with the selection and hatching of eggs by natural and artificial methods. It calls attention to the importance of the incubator and offers suggestions for its construction and directions for its proper use. A statement of the defects of incubators is also given.

REPRINTS.

- No. 24.—Hog Cholera and Swine Plague. Pp. 16.
 No. 28.—Weeds; and How to Kill them. Pp. 31.
 No. 35.—Potato Culture. Pp. 23.
 No. 36.—Cotton Seed and its Products. Pp. 16.
 No. 43.—Sewage Disposal on the Farm, and the Protection of Drinking Water. Pp. 20.
 No. 51.—Standard Varieties of Chickens. Pp. 48.
 No. 57.—Butter Making on the Farm. Pp. 20.
 No. 59.—Bee Keeping. Pp. 48.
 No. 63.—Care of Milk on the Farm. Pp. 40.
 No. 104.—Notes on Frost. Pp. 24.
 No. 112.—Bread and the Principles of Bread Making. Pp. 40.
 No. 116.—Irrigation in Fruit Growing. Pp. 48.
 No. 141.—Poultry Raising on the Farm. Pp. 16.
 No. 152.—Scabies of Cattle. Pp. 32.
 No. 154.—The Home Fruit Garden: Preparation and Care. Pp. 16.
 No. 156.—The Home Vineyard, with Special Reference to Northern Conditions. Pp. 21.
 No. 173.—A Primer of Forestry. Pp. 48.
 No. 192.—Barnyard Manure. Pp. 32.
 No. 195.—Annual Flowering Plants. Pp. 48.
 No. 201.—The Cream Separator on Western Farms. Pp. 24.
 No. 203.—Canned Fruit, Preserves, and Jellies: Household Methods of Preparation. Pp. 32.
 No. 208.—Varieties of Fruits Recommended for Planting. Pp. 48.
 No. 215.—Alfalfa Growing. Pp. 40.
 No. 219.—Lessons from the Grain-rust Epidemic of 1904. Pp. 24.

MISCELLANEOUS PUBLICATION.

NEW.

Bibliography of the More Important Contributions to American Economic Entomology, Part VIII. The More Important Writings Published between December 31, 1899, and January 1, 1905. Prepared under the direction of the Entomologist by Nathan Banks, Assistant Entomologist. Pp. 132. (Bureau of Entomology.) Price — cents.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau. Postage stamps not received.]

Charts of the Weather Bureau—

Weather-Crop Bulletin (series of 1905), reporting temperature and rainfall with reference to their effect on crops. (No. 30, for the month of October, 1905.)

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

Cotton Region Weather-Crop Bulletin. No. IV. Published by authority of the Secretary of Agriculture. P. 1.

PUBLICATION NOT AVAILABLE FOR DISTRIBUTION.

Experiment Station Work, Vol. II, No. 11. Pp. iv, 281-308, figs. 5. (Office of Experiment Stations.)

Approved:

JAMES WILSON,

Secretary of Agriculture.

GEO. WM. HILL,
Editor and Chief.

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture, DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *December 30, 1905.*

MONTHLY LIST OF PUBLICATIONS.

[DECEMBER, 1905.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.

Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents. In all cases where officials desire to exchange publications application should be made to the Department of Agriculture.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

ADVANCE SHEETS.

FROM FIELD OPERATIONS, BUREAU OF SOILS, 1904.

- Soil Survey of the Greeneville Area, Tennessee-North Carolina. By Charles N. Mooney and O. L. Ayrs. Pp. 37, fig. 1, map 1.
- Soil Survey of Allen County, Kansas. By J. A. Drake and W. E. Tharp. Pp. 24, fig. 1, map 1.
- Soil Survey of Lawrence County, Tennessee. By Charles N. Mooney and O. L. Ayrs. Pp. 22, fig. 1, map 1.
- Soil Survey of Warren County, Kentucky. By Thomas D. Rice and W. J. Geib. Pp. 19, fig. 1, map 1.

REPORTS.

NEW.

- Report of the Secretary of Agriculture, 1905. Pp. 100. (Report No. 81.)
- Twenty-first Annual Report of the Bureau of Animal Industry, 1904. Pp. 632, pls. 47, figs. 50.

BULLETINS.

NEW.

- The Determination of Generic Types, and a List of Roundworm Genera, with their Original Type Species. By Ch. Wardell Stiles, Consulting Zoologist, Bureau of Animal Industry, and Albert Hassall, Assistant in Zoology, Bureau of Animal Industry. Pp. 150. (Bulletin No. 79, Bureau of Animal Industry.) Price 5 cents.
- The Grouse and Wild Turkeys of the United States, and their Economic Value. By Sylvester D. Judd, Assistant, Biological Survey. Pp. 55, pls. 2. (Bulletin No. 24, Biological Survey.) Price 10 cents.
- Foods and Food Control. Revised to July 1, 1905. I. Federal Laws and Laws of Alabama, Alaska, Arizona, Arkansas, California, Colorado, and Connecticut. By W. D. Bigelow, Chief, Division of Foods. Pp. 98. (Bulletin No. 69, revised, Part I, Bureau of Chemistry.) Price 5 cents.
- Foods and Food Control. Revised to July 1, 1905. II. Laws of Delaware, the District of Columbia, the Dominion of Canada, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, and Iowa. By W. D. Bigelow, Chief, Division of Foods. Pp. 200. (Bulletin No. 69, revised, Part II, Bureau of Chemistry.) Price 5 cents.

Mineral Waters of the United States. I. Classification and Methods of Analysis. II. Commercial Waters. III. Saratoga Waters Sampled at Source. By J. K. Haywood, Chief, Miscellaneous Laboratory, with the collaboration of B. H. Smith, Assistant Chemist. Pp. 100. (Bulletin No. 91, Bureau of Chemistry.) Price 10 cents.

Report of Irrigation and Drainage Investigations, 1904. Pp. 755, pls. 12, figs. 129. (Bulletin No. 158, Office of Experiment Stations.) Price 45 cents.

Agricultural Instruction for Adults in Continental Countries. By John Hamilton, Farmers' Institute Specialist. Pp. 32. (Bulletin No. 163, Office of Experiment Stations.) Price 5 cents.

Experiment Station Record, December, 1905. Vol. XVII, No. 4. Pp. viii, 313-416. (Office of Experiment Stations.) (No single copies of Vol. XVII sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has decided to fix the price per volume (12 numbers), beginning with Volume X, at \$1, payable in advance.

Forest Belts of Western Kansas and Nebraska. By Royal S. Kellogg, Forest Assistant, Forest Service. Pp. 44, pls. 6, map 1. (Bulletin No. 66, Forest Service.) Price 10 cents.

Disease Resistance of Potatoes. By L. R. Jones, Botanist of the Vermont Agricultural Experiment Station, and Collaborator of the Bureau of Plant Industry. Vegetable Pathological and Physiological Investigations. Pp. 39. (Bulletin No. 87, Bureau of Plant Industry.) Price 5 cents.

Peppermint. By Alice Henkel, Assistant, Drug-Plant Investigations. Pp. 15, figs. 3. (Bulletin No. 90, Part III, Bureau of Plant Industry.) Price 5 cents.

The Mineral Constituents of the Soil Solution. By Frank K. Cameron and James M. Bell. Pp. 70, figs. 4. (Bulletin No. 30, Bureau of Soils.) Price 5 cents.

REPRINTS.

Bulletin No. 65, Bureau of Chemistry. Provisional Methods for the Analysis of Foods Adopted by the Association of Official Agricultural Chemists, November 14-16, 1901. Price 10 cents.

Bulletin No. 28, revised edition, Office of Experiment Stations. The Chemical Composition of American Food Materials. Price 5 cents.

Bulletin No. 43, Office of Experiment Stations. Losses in Boiling Vegetables, and the Composition and Digestibility of Potatoes and Eggs. Price 5 cents.

Bulletin No. 10, Hawaii Agricultural Experiment Station. Insect Enemies of Tobacco in Hawaii. Price 5 cents.

CIRCULARS.

NEW.

Hints to Poultry Raisers. By G. Arthur Bell, Assistant Animal Husbandman, Bureau of Animal Industry. Pp. 3. (Circular No. 82, Bureau of Animal Industry.)

Blackhead, or Infectious Entero-hepatitis, in Turkeys. Pp. 8, figs. 7. (Circular No. 5, revised, Bureau of Animal Industry.)

United States and State Standards for Dairy Products, 1905. Pp. 2. (Circular No. 74, revised, Bureau of Animal Industry.)

The Clover Root-borer (*Hylastinus obscurus*). By F. M. Webster, in Charge of Cereal and Forage-plant Insect Investigations. Pp. 5, figs. 4. (Circular No. 67, Bureau of Entomology.)

List of Publications of the Office of Experiment Stations on Irrigation and Drainage. Pp. 6. (Doc. 852, Office of Experiment Stations.)

Organization of Department of Agriculture, 1905-1906. Pp. 31. (Circular No. 1, Division of Publications. Revised to October 1, 1905.)

Monthly List of Publications, November, 1905. Pp. 4. (No. 527, Division of Publications.)

Crop Reporter, Vol. 7, No. 8. Published by the U. S. Department of Agriculture under the supervision of the Assistant Secretary. Pp. 63-70.

Supplement, Crop Reporter, Vol. 7, No. 8. Pp. 71-78.

A three-column quarto publication devoted to agricultural statistics.

REPRINTS.

Circular No. 65, Bureau of Animal Industry. Ophthalmia in Cattle.

Document No. 847, Office of Experiment Stations. List of Station Publications Received by the Office of Experiment Stations during September and October, 1905.

Circular No. 12, Division of Forestry. Southern Pine—Mechanical and Physical Properties.

FARMERS' BULLETINS.

NEW.

Cement, Mortar, and Concrete: Preparation and Use for Farm Purposes. By Philip L. Wormeley, jr., Testing Engineer, Office of Public Roads. Pp. 32, figs. 14. (Farmers' Bulletin No. 235.)

This bulletin gives directions for the selection of materials and the preparation of cement, mortar, and concrete, the construction of walks, driveways, floors, fence posts, building blocks, etc., with estimates of the cost and durability of such work.

The Corrosion of Fence Wire. By Allerton S. Cushman, Assistant Director, Office of Public Roads. Pp. 32. (Farmers' Bulletin No. 239.)

The object of this bulletin is to furnish information to the farmer concerning the manufacture of fence wire and the causes which underlie the too rapid corrosion of modern steel wire, with suggestions for improvements in the methods of manufacture.

Inoculation of Legumes. By Karl F. Kellerman, Physiologist in Charge of the Laboratory of Plant Physiology, and T. R. Robinson, Assistant in Physiology, Vegetable Pathological and Physiological Investigations, Bureau of Plant Industry. Pp. 8. (Farmers' Bulletin No. 240.)

Directions for the use of the cultures of nitrogen-fixing bacteria, with suggestions and general information for the users of this inoculating material. Special attention is called to the new method of distributing the cultures.

REPRINTS.

No. 22.—The Feeding of Farm Animals. Pp. 40.

No. 41.—Fowls: Care and Feeding. Pp. 24.

No. 84.—Experiment Station Work—VII. Pp. 32.

No. 91.—Potato Diseases and their Treatment. Pp. 16.

No. 95.—Good Roads for Farmers. Pp. 48.

No. 118.—Grape Growing in the South. Pp. 32.

No. 126.—Practical Suggestions for Farm Buildings. Pp. 48.

No. 128.—Eggs and their Uses as Food. Pp. 38.

No. 142.—Principles of Nutrition and Nutritive Value of Food. Pp. 48.

No. 143.—Conformation of Beef and Dairy Cattle. Pp. 46.

No. 145.—Carbon Bisulphid as an Insecticide. Pp. 30.

No. 147.—Winter Forage Crops for the South. Pp. 40.

No. 155.—How Insects Affect Health in Rural Districts. Pp. 20.

No. 161.—Practical Suggestions for Fruit Growers. Pp. 30.

No. 170.—Principles of Horse Feeding. Pp. 44.

No. 182.—Poultry as Food. Pp. 40.

No. 183.—Meat on the Farm: Butchering, Curing, and Keeping. Pp. 38.

No. 193.—Experiment Station Work—XXV. Pp. 32.

No. 194.—Alfalfa Seed. Pp. 14.

No. 199.—Corn Growing. Pp. 32.

No. 200.—Turkeys: Standard Varieties and Management. Pp. 40.

No. 225.—Experiment Station Work—XXIX. Pp. 32.

SEPARATES.

FROM YEARBOOK, DEPARTMENT OF AGRICULTURE, 1904.

Opportunities in Agriculture. I. Growing Crops under Glass. By B. T. Galloway, Chief of the Bureau of Plant Industry. II. Fruit Growing. By M. B. Waite, Physiologist in Charge of Investigations of Diseases of Orchard Fruits, Bureau of Plant Industry. III. General Farming. By W. J. Spillman, Agrostologist, Bureau of Plant Industry. Pp. ii, 161-190, pls. 3. (Extract No. 340.)

Present Status of the Cotton Boll Weevil in the United States. By W. D. Hunter, in Charge of Cotton Boll Weevil Investigations, Bureau of Entomology. Pp. ii, 191-204, fig. 1, pls. 2. (Extract No. 341.)

Practical Road Building in Madison County, Tennessee. By Sam C. Lancaster, Chief Engineer, Madison County Good Roads Commission. Pp. ii, 323-340, pls. 5, figs. 5. (Extract No. 350.)

FROM BULLETIN NO. 158, OFFICE OF EXPERIMENT STATIONS.

Review of the Irrigation Work of the Year 1904. By R. P. Teele, Expert in Irrigation Institutions. Pp. 1-75.

Irrigation in Santa Clara Valley, California. By S. Fortier, Irrigation Engineer in Charge of Pacific District. (In cooperation with the State of California.) Pp. 77-91.

Mechanical Tests of Pumping Plants Used for Irrigation. By J. N. Le Conte, Expert in Pumping. (In cooperation with the State of California.) Pp. 195-255.

MISCELLANEOUS PUBLICATION.

Syllabus of Illustrated Lecture on Essentials of Successful Field Experimentation. By C. E. Thorne, Director, Ohio Agricultural Experiment Station, Wooster, Ohio. Pp. 24. (Farmers' Institute Lecture No. 6, Office of Experiment Stations.) Price 5 cents.

PUBLICATIONS OF THE WEATHER BUREAU.

[For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau. Postage stamps not received.]

Monthly Weather Review. Vol. XXXIII, No. 7, July, 1905. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 287-348, pls. 4, charts 9. (W. B. No. 337.) Price 20 cents; \$2 per year.

Charts of the Weather Bureau—

Weather Crop Bulletin (series of 1905), reporting temperature and rainfall with reference to their effect on crops. (No. 31, for the month of November, 1905.)

Snow and Ice Bulletin for Tuesdays, December 5, 12, 19, and 26, 1905. (These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau Stations, supplemented by reports from selected voluntary observers.)

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

Approved:

JAMES WILSON,

Secretary of Agriculture.

GEO. WM. HILL,

Editor and Chief.